

Le web décentralisé



Breizh C@mp

Qui suis-je ?



@AntoineCailly



acailly



zenika

<animés par la passion>

Great
Place
To
Work.

Best Workplaces™

50 à 500 salariés

FRANCE

2018

**Il était une fois le web
en 2019...**



Censure

Sat Apr 29 2017 08:02:55 GMT+0300 (+03)
https://en.wikipedia.org 5005 DOWN
https://tr.wikipedia.org 5009 DOWN
https://az.wikipedia.org 5009 DOWN
https://fr.wikipedia.org 5007 DOWN
https://www.wikipedia.org 5007 DOWN



Turkey Blocks 

@TurkeyBlocks



Suivre

Confirmed: All editions of the [#Wikipedia](#) online encyclopedia blocked in [#Turkey](#) as of 8:00AM local time turkeyblocks.org/2017/04/29/wik...

07:22 - 29 avr. 2017



86



2 875



1 015



Vikipedi'ye hoş geldiniz

Herkesin katkıda bulunabildiği *Özgür Ansiklopedi*
Türkçe madde sayısı: 288.931

9 Ocak 2017, Pazartesi

- Bilim
- Fizik
- Spor
- Coğrafya
- Matematik
- Tarih
- Din
- Sanat
- Tüm portaller

Haftanın seçkin maddesi



Mars, Güneş Sistemi'nin Güneş'ten itibaren dördüncü gezegeni. Roma mitolojisindeki savaş tanrısı Mars'a ithafen adlandırılmıştır. Yüzeyindeki yaygın demir oksitten dolayı kızılımsı bir görünüme sahip olduğu için *Kızıl Gezegen* de denir. İnce bir atmosferi olan Mars gerek Ay'daki gibi meteor kraterlerini, gerekse Dünya'daki

gibi volkan, vadi, çöl ve kutup bölgelerini içeren çehresiyle bir yerbenzeri gezegendir. Ayrıca dönme periyodu ve mevsim dönemleri Dünya'ninkine çok benzer.

<https://ipfs.io/ipfs/QmT5NvUtoM5nWFfrQdVrFtvGfKFmG7AHE8P34isapyhCxX/wiki/Anasayfa.html>

Güneş Sistemi'nde bilinen en yüksek dağ ve *Marineris Vadisi* adlı kanyon en büyük kanyondur. Ayrıca Haziran 2008'de *Nature* dergisinde yayımlanan üç makalede

Günün seçkin resmi



Referèndum 2017

Inici

Normativa electoral

Sindicatures electorals

Sala de premsa

Com s'ha de votar

On votar



Col·laboradors del referèndum

El més destacat

- Material per descarregar
- Calendari electoral
- Call for international monitoring

Preguntes més freqüents

Electors

Meses electorals

<https://ipfs.io/ipns/QmZxWEBJBvKGDGaKdYPQUXX4KC5TCWbvU4iYZrTML8XCR/>



Suppression des données



Donald J. Trump 

@realDonaldTrump



Suivre

It's freezing in New York—where the hell is global warming?

21:37 - 23 avr. 2013



397



470



281



Trump Just Deleted Obama's Climate Change Webpages



By *Brian Kahn*

Follow @blkahn

9,117 followers



Published: January 20th, 2017

At the exact hour when the presidency transferred hands, the Obama administration's climate and energy webpages became some of the first casualties of the new Trump administration.

In their place is an "[America first](#)" [energy plan](#), which talks at length about tapping fossil fuel resources in the U.S. but makes no mention of climate change or renewable energy. Investing in the latter will be crucial to avert catastrophic changes to the world.



<http://www.climatecentral.org/news/trump-delete-climate-change-webpage-21091>

Obama's climate page has been sent off to the archive.



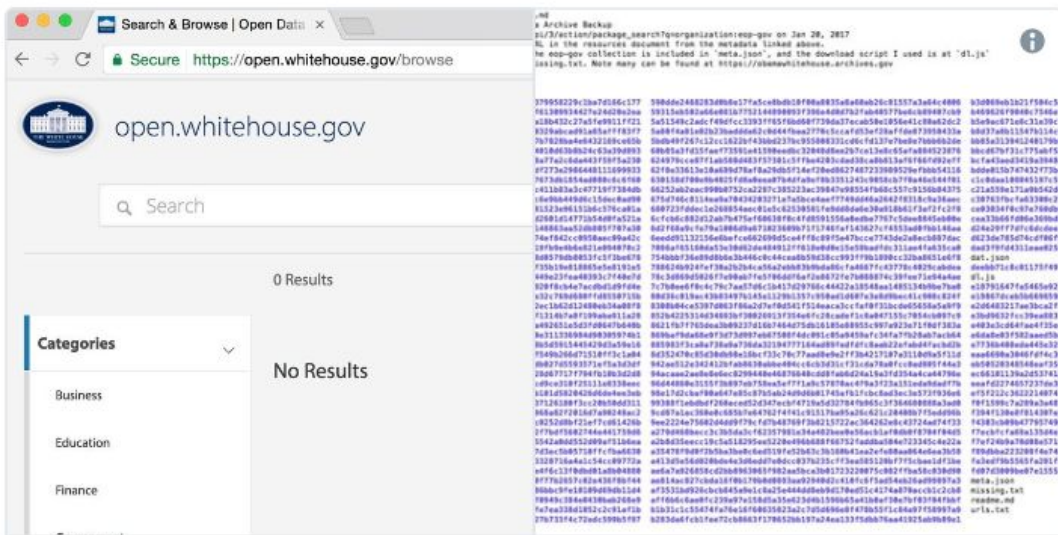
Building refuge for federal climate & environmental data

DataRefuge helps to build refuge for federal data and supports climate and environmental research and advocacy. We are committed to fact-based arguments. DataRefuge preserves the facts we need at a time of ongoing climate change.

This site is one part of the project. The vast majority of the government information gathered through this project is available from the Internet Archive through the [End of Term project](#). This data catalog is a place to store data that is difficult or impossible to harvest through web crawlers. Data was added to this site by volunteers at [Data Rescue events](#). You can see the [workflow](#) used at many of these events on the Data Refuge project site, however this workflow is no longer supported.



<https://www.datarefuge.org/>



maxwell ogden
@denormalize



Today Trump removed all open data (9GB) from the White House open.whitehouse.gov/browse but I grabbed it all Jan 20! Will distribute soon

21:12 - 14 févr. 2017

288 8 854 12 877

Shared with Dat

Explore public data shared with Dat.



EXECUTIVE OFFICE OF THE PRESIDENT

Archive of open.whitehouse.gov

Backup of the open data released by President Barack Obama before being deleted in February, 2017.

Preview

<https://datproject.org/explore>



Centralisation des services



Recherche



Maps



YouTube



Play



Actualités



Contacts



Drive



Agenda



Docs



Traduction



Photos



Inbox

facebook



WhatsApp



waze



Instagram



ANDROID



chrome

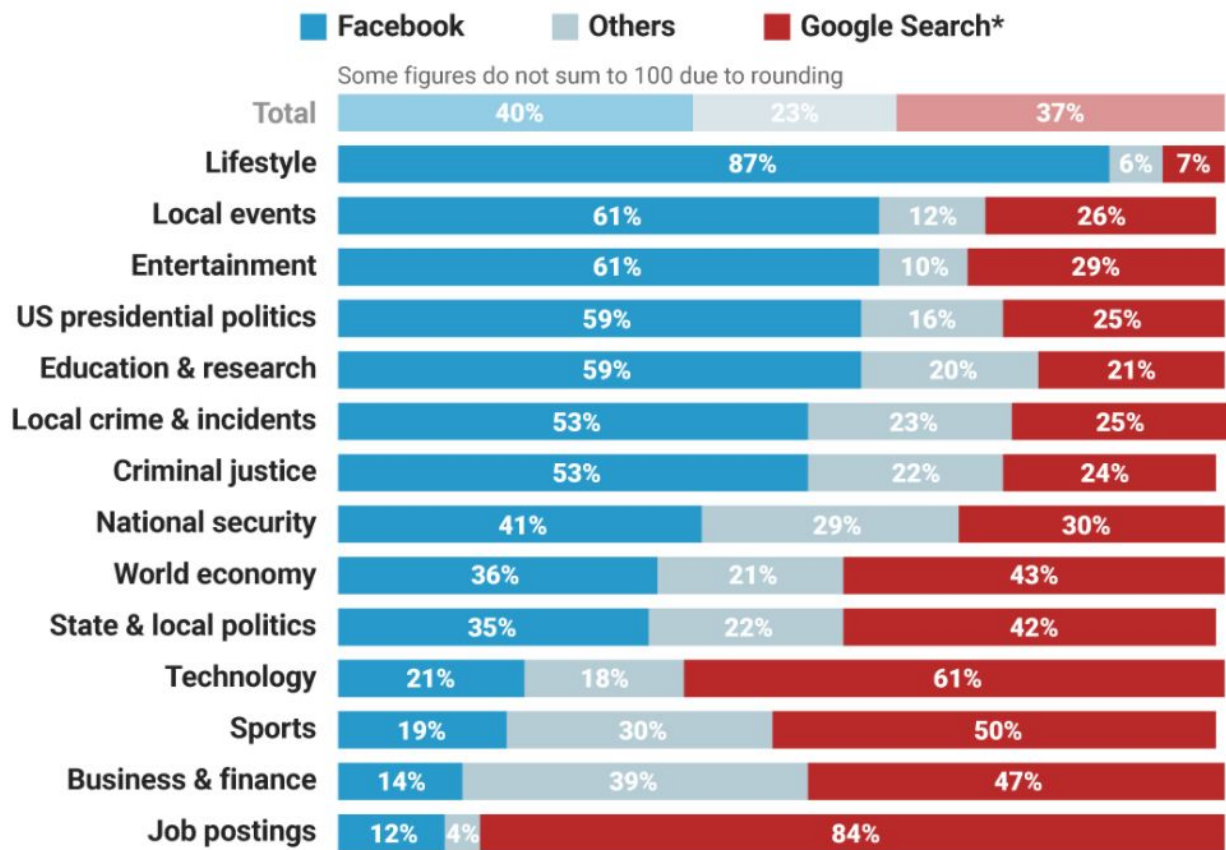
DELETE
facebook

et Google, Amazon, Microsoft, Apple, Uber...

An aerial photograph of a complex highway interchange, overlaid with a semi-transparent teal color. The image shows multiple lanes of traffic, overpasses, and surrounding urban and forested areas. The text 'Centralisation du trafic' is prominently displayed in the center in a bold, white, sans-serif font.

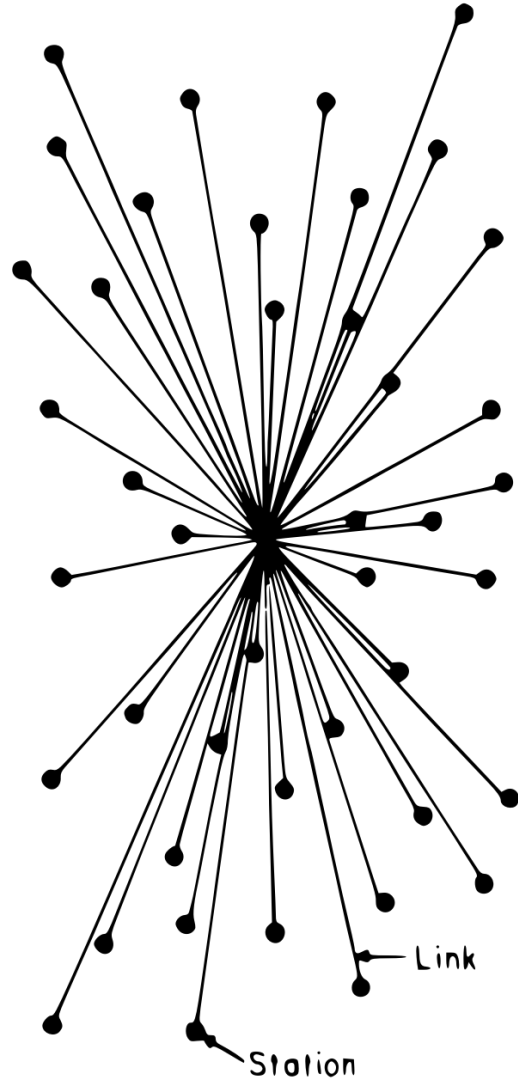
Centralisation du trafic

DISTRIBUTION OF REFERRAL TRAFFIC SOURCES BY TOPIC



SOURCE: Parse.ly *Not including Google AMP

**Un point
commun ?**

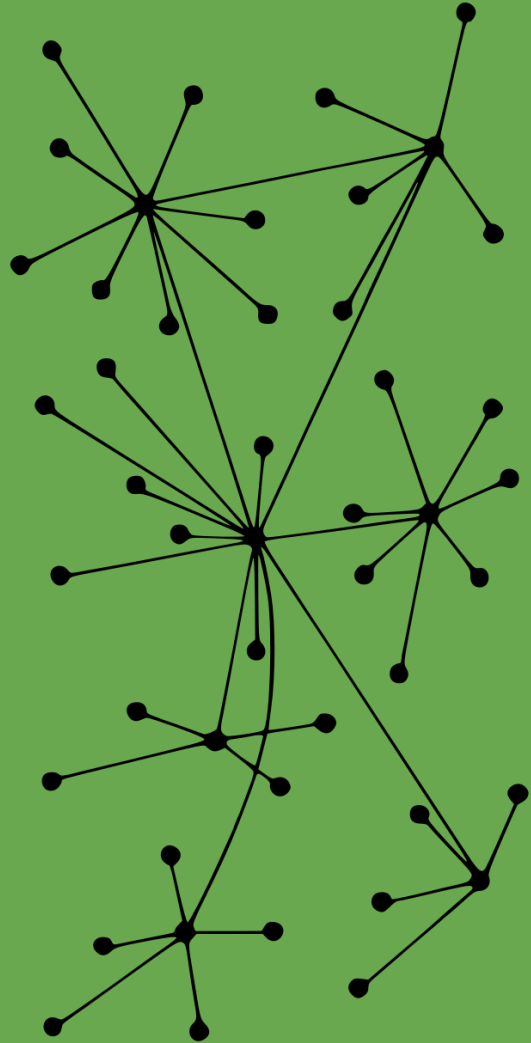


**Single
point of
failure**

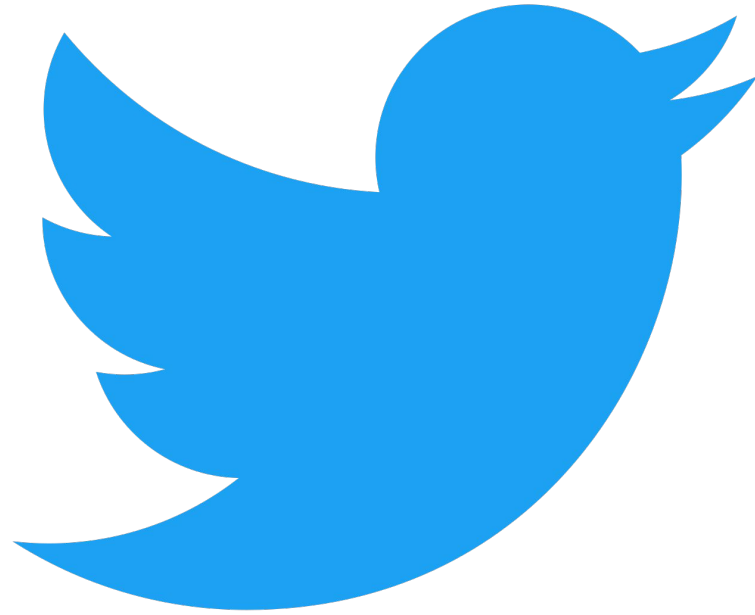
**Single
point of
control**

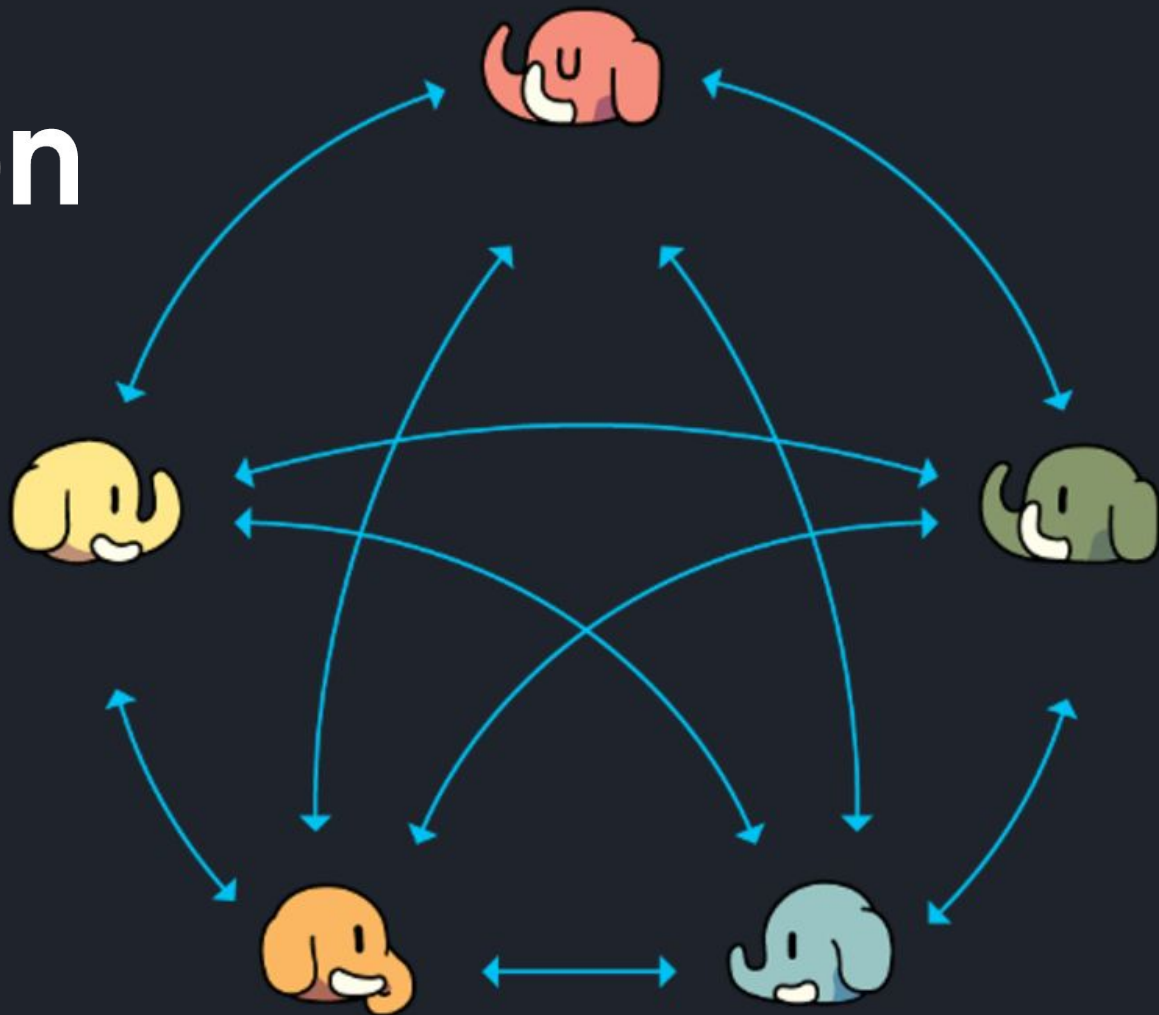
A hand holding a glowing lightbulb against a teal background. The lightbulb is illuminated from within, casting a warm glow. The hand is positioned in the lower right quadrant, with fingers wrapped around the base of the bulb. The background is a solid, muted teal color.

Une solution ?



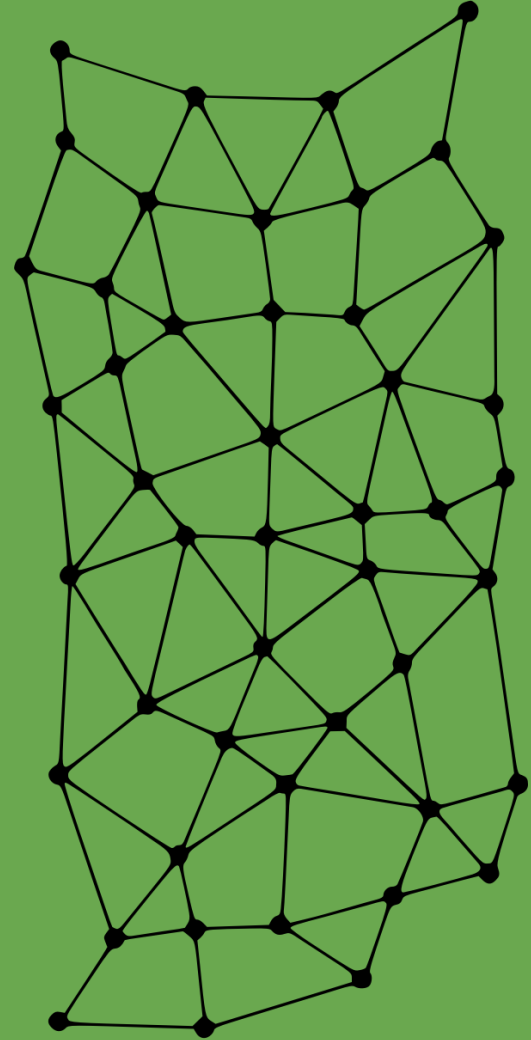
Fédéré

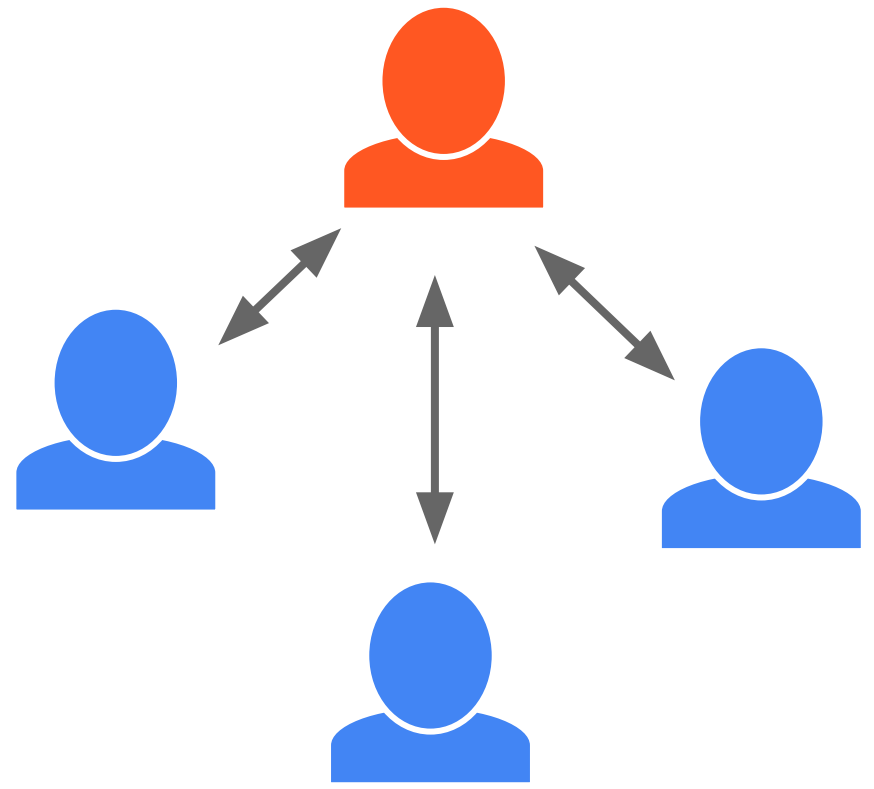




<https://joinmastodon.org/>

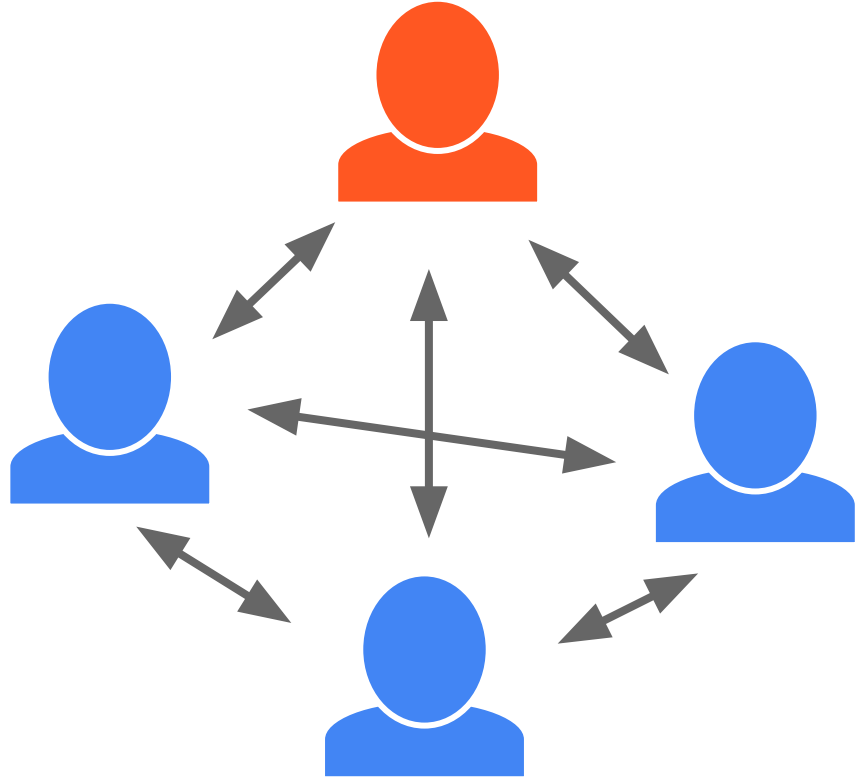
Distribué





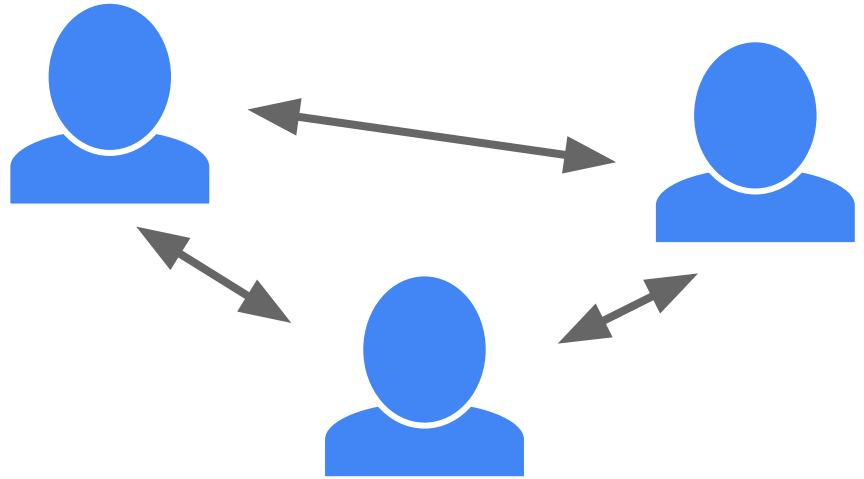


git





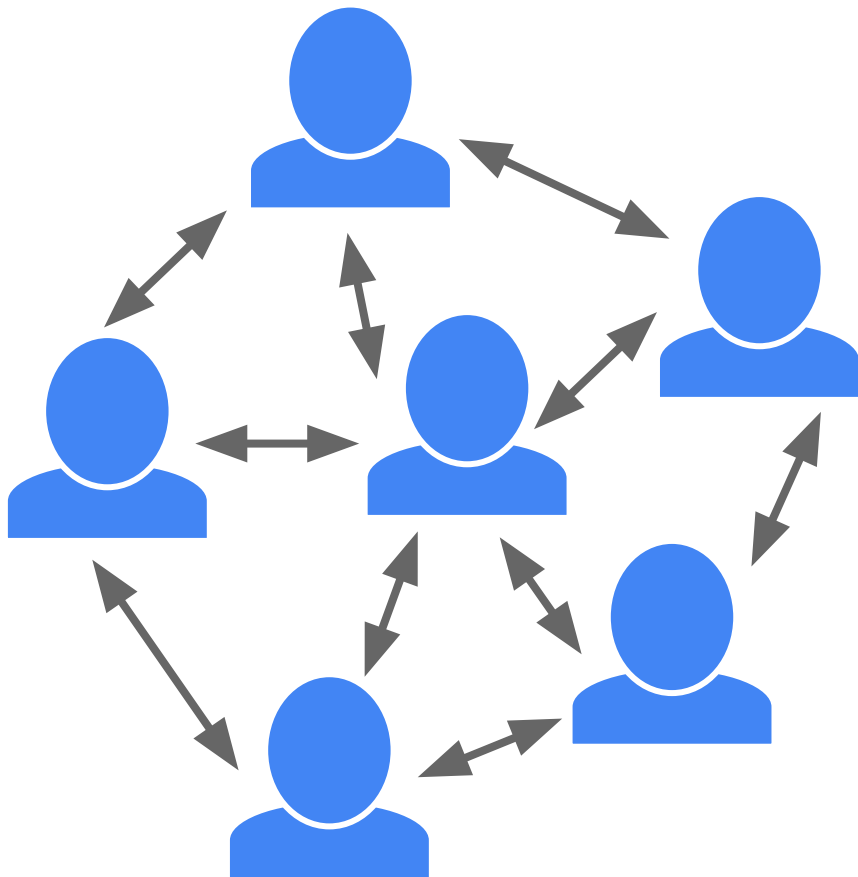
git



Comment ça marche ?

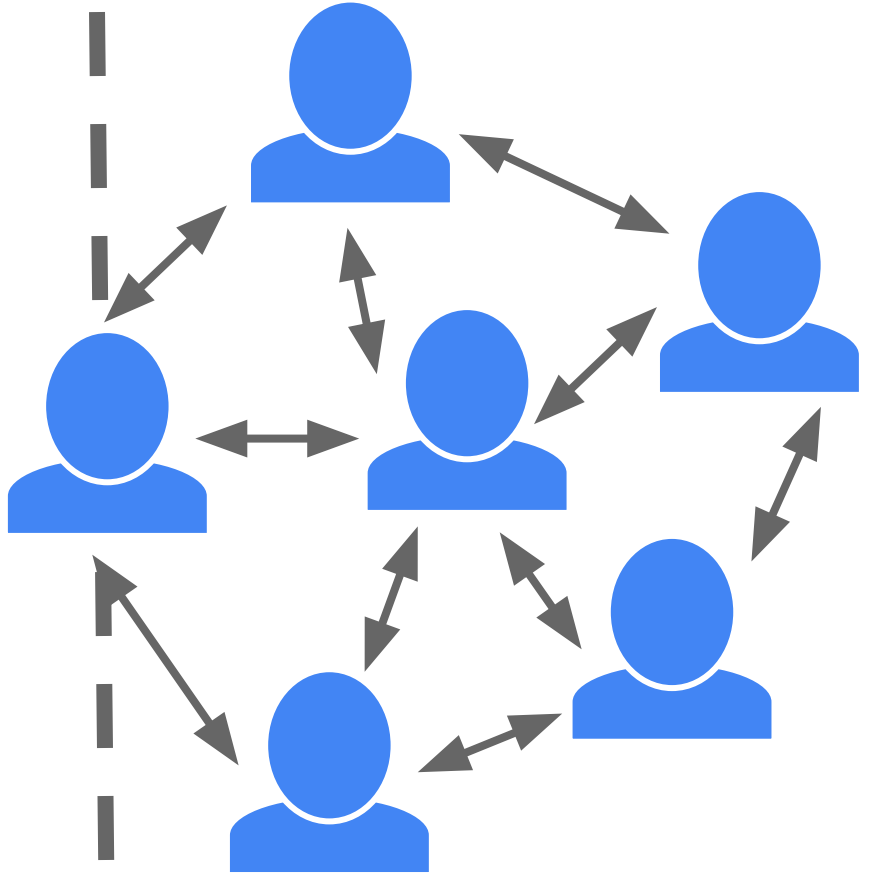


?

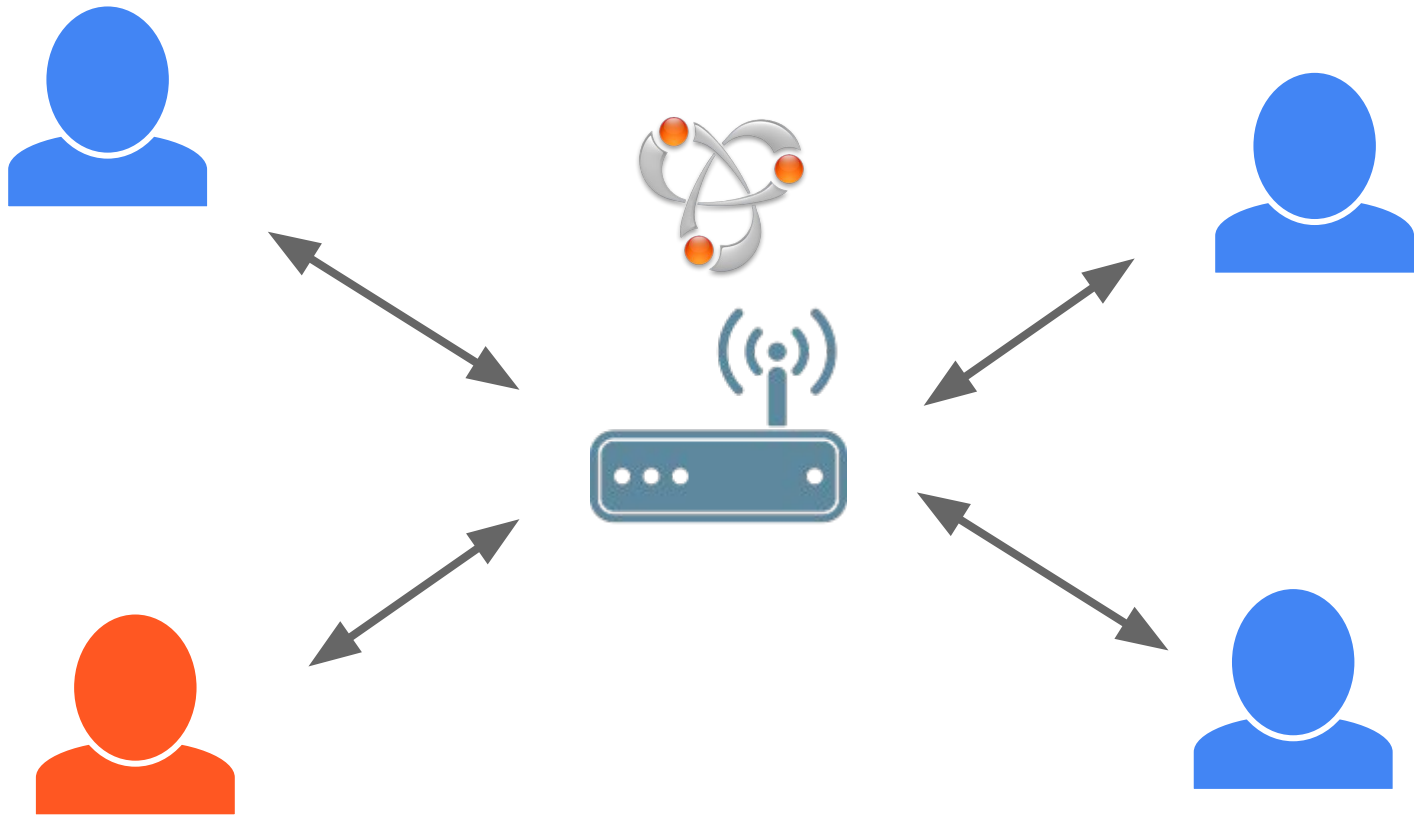


Bootstrapping





Node publique



Multicast DNS (ZeroConf, Apple Bonjour)

Démo

Trouver une node
publique Bitcoin

```
PS C:\_Projets\Perso\doc> nslookup bitseed.xf2.org
Serveur : dns2.proxad.net
Address: 212.27.40.241
```

```
Réponse ne faisant pas autorité :
```

```
Nom : bitseed.xf2.org
Addresses: 24.52.35.44
           50.177.196.160
           68.48.214.241
           76.111.96.126
           85.214.90.1
           94.226.111.26
           96.2.103.25
           97.117.255.48
           99.242.230.163
           162.243.194.210
           173.69.49.106
           198.38.93.227
           209.208.110.92
```

```
PS C:\_Projets\Perso\doc> nslookup bitseed.xf2.org
Serveur : dns2.proxad.net
Address: 212.27.40.241
```

```
Réponse ne faisant pas autorité :
```

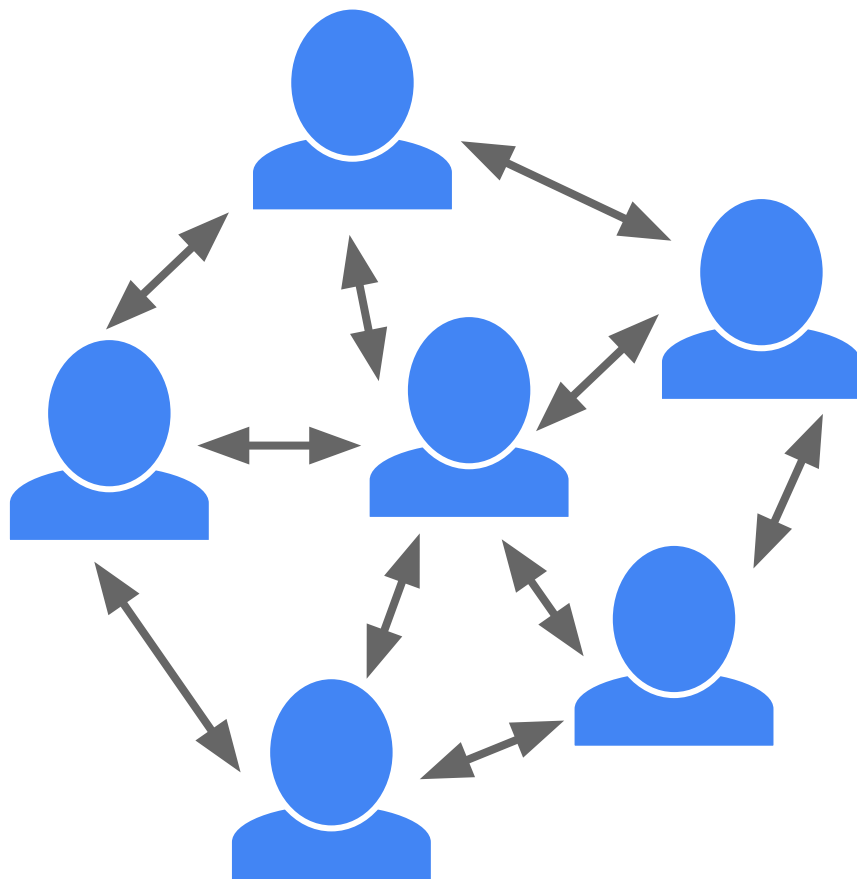
```
Nom : bitseed.xf2.org
```

```
Addresses: 24.52.35.44
           50.177.196.160
           68.48.214.241
           76.111.96.126
           85.214.90.1
```

✔ 85.214.90.1:8333 /Satoshi:0.15.99(UASF-SegWit-BIP148)/

```
           99.242.230.163
           162.243.194.210
           173.69.49.106
           198.38.93.227
           209.208.110.92
```

foo.txt ?



A person is silhouetted against a dark, teal background, standing on a mountain peak. A bright green laser beam is directed from the person towards the left side of the frame. The overall scene is dark and atmospheric, suggesting a night or low-light environment.

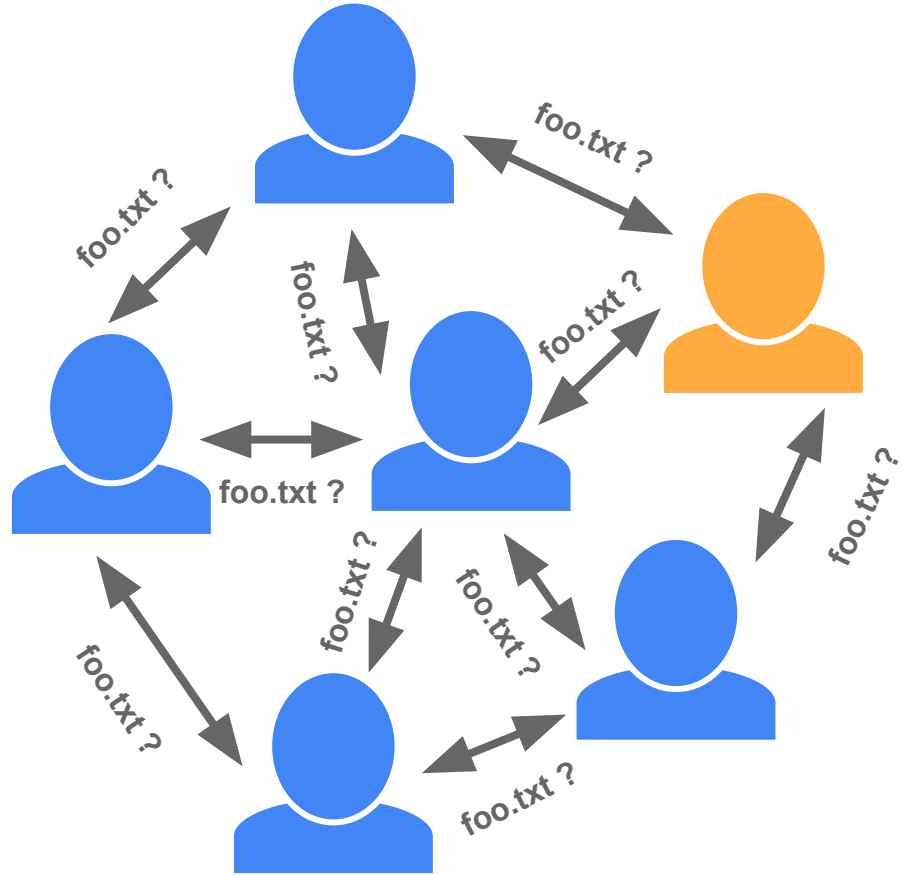
Discovery

**Retour dans les années
2000...**

gnutella



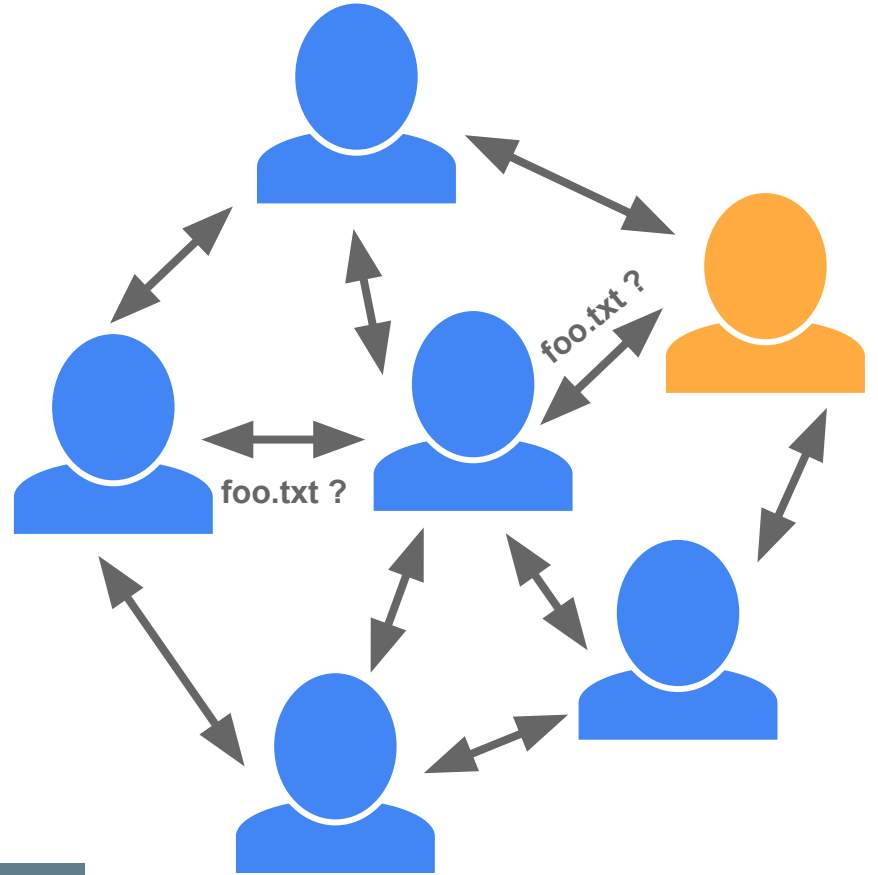
foo.txt ?



Query Flooding



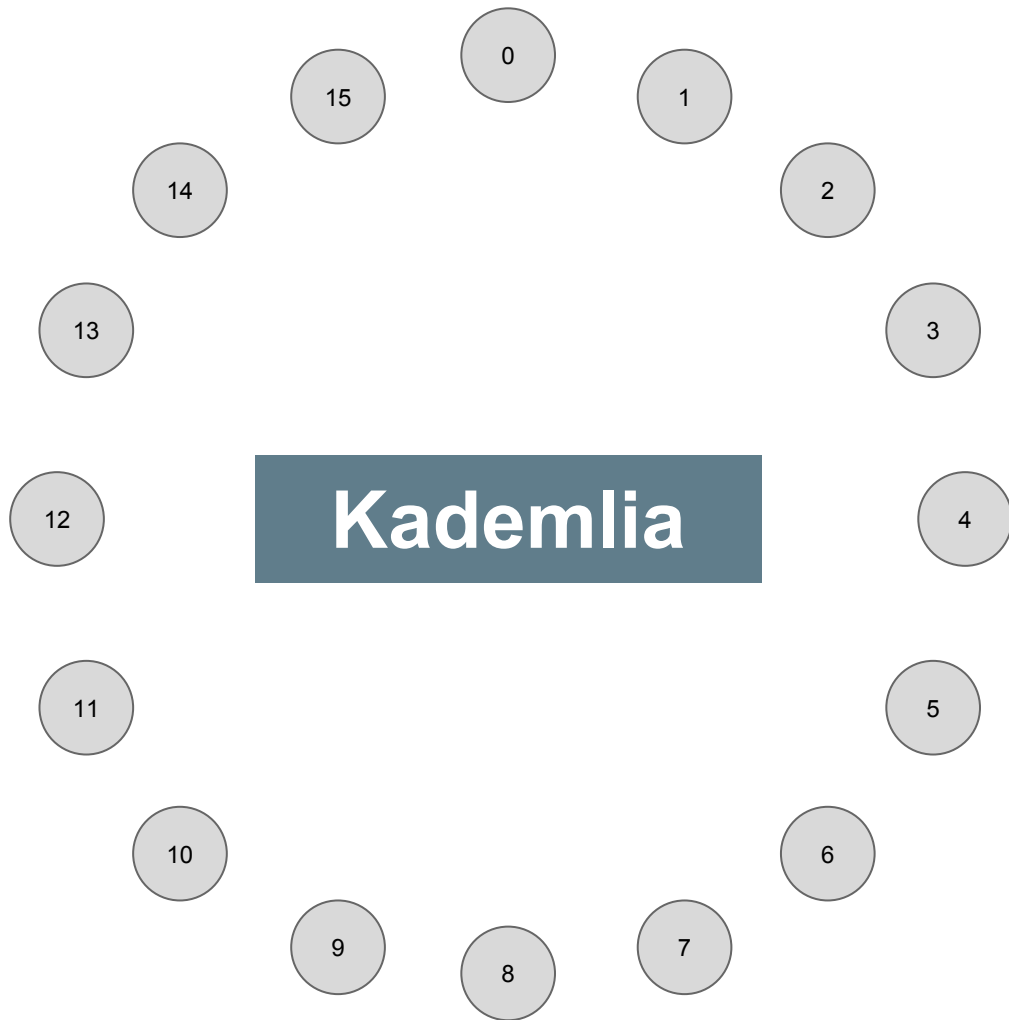
foo.txt ?

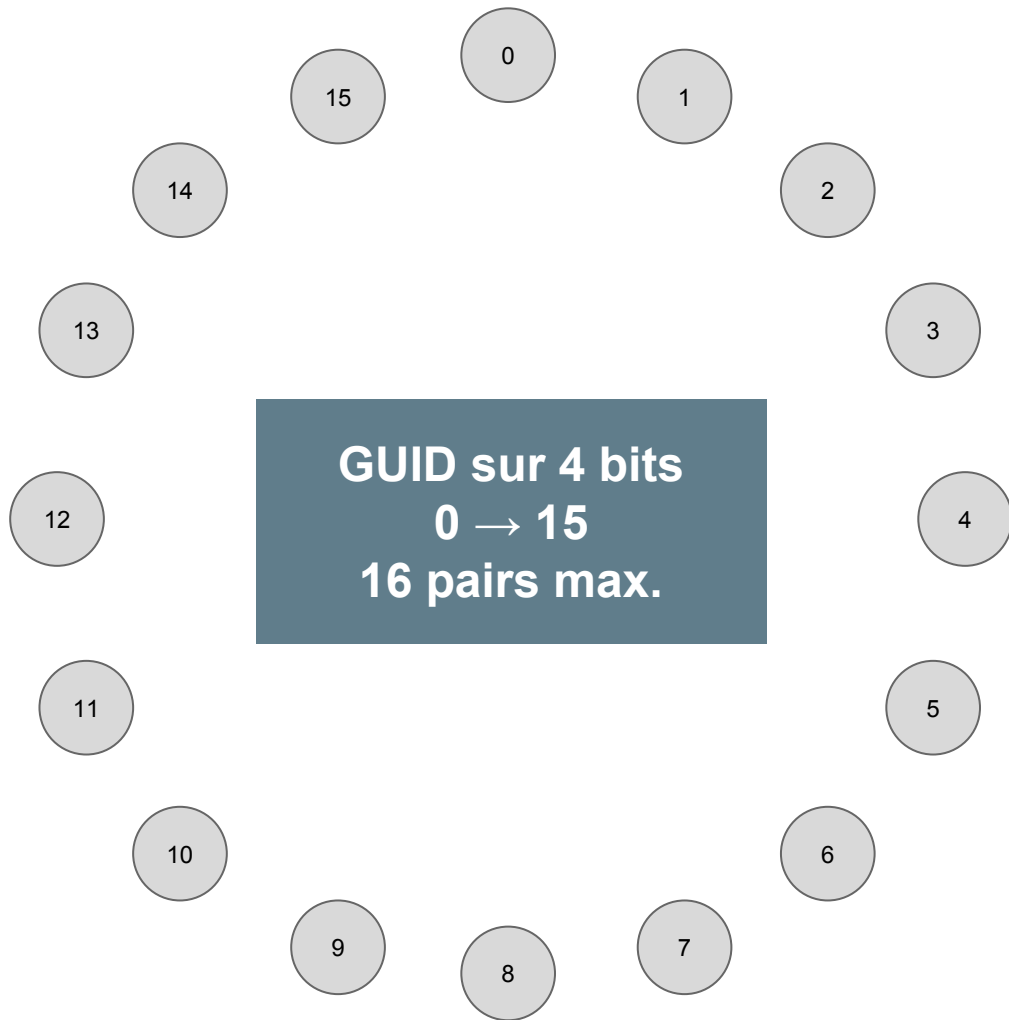


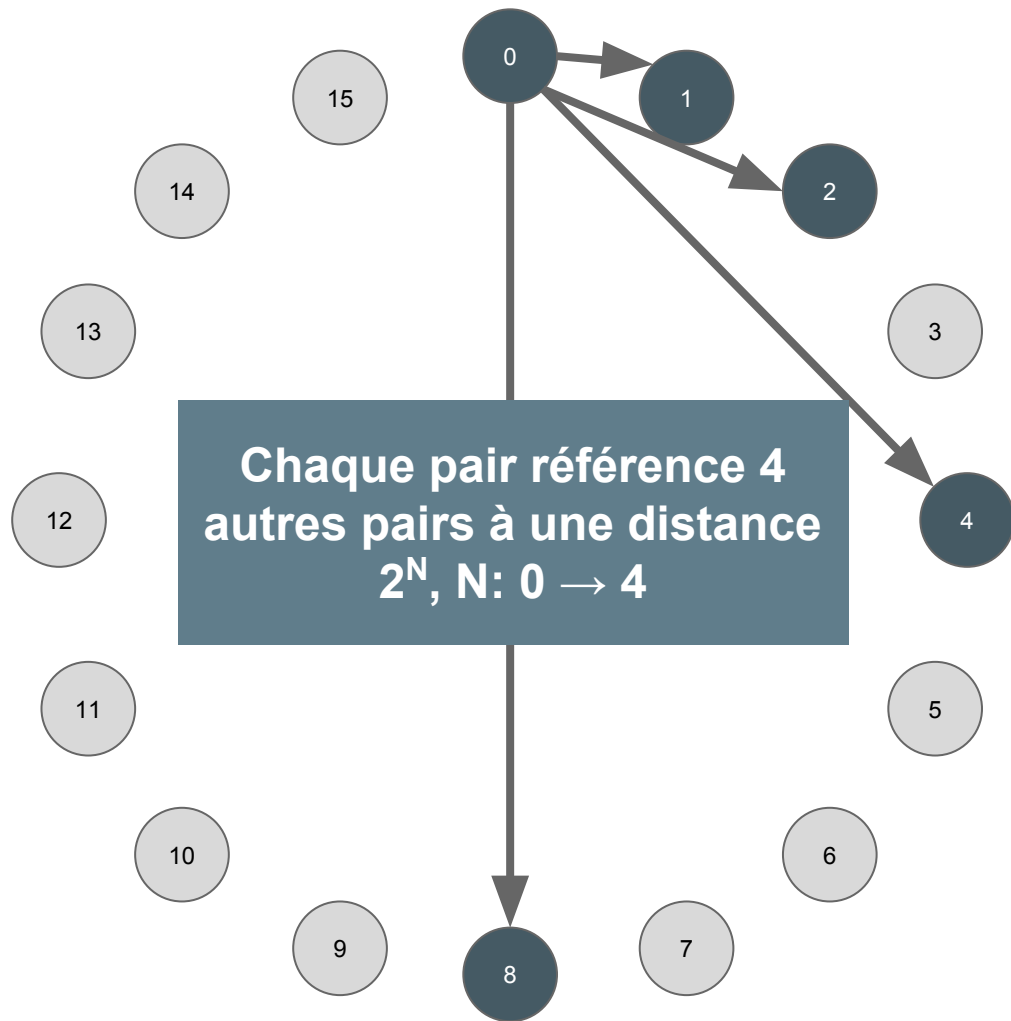
Distributed Hash Table

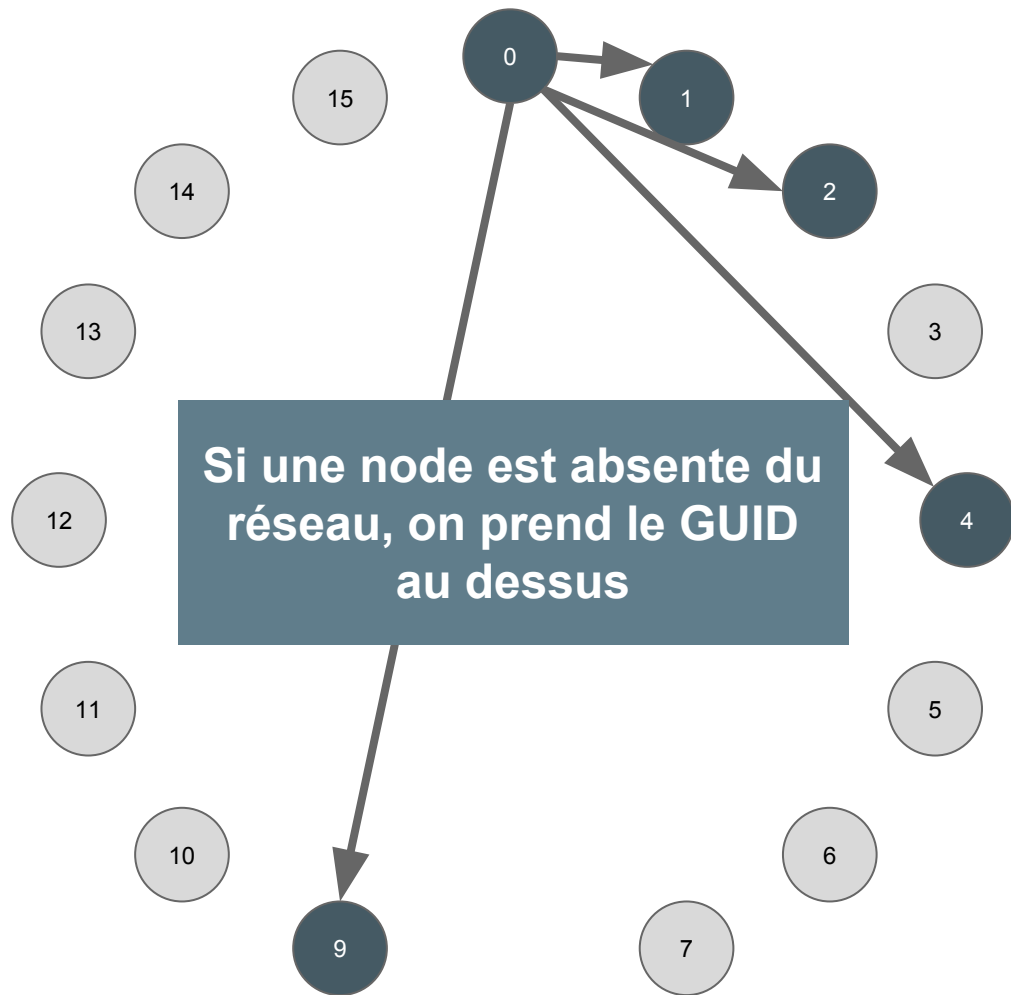
Distributed Hash Table

DHT ?

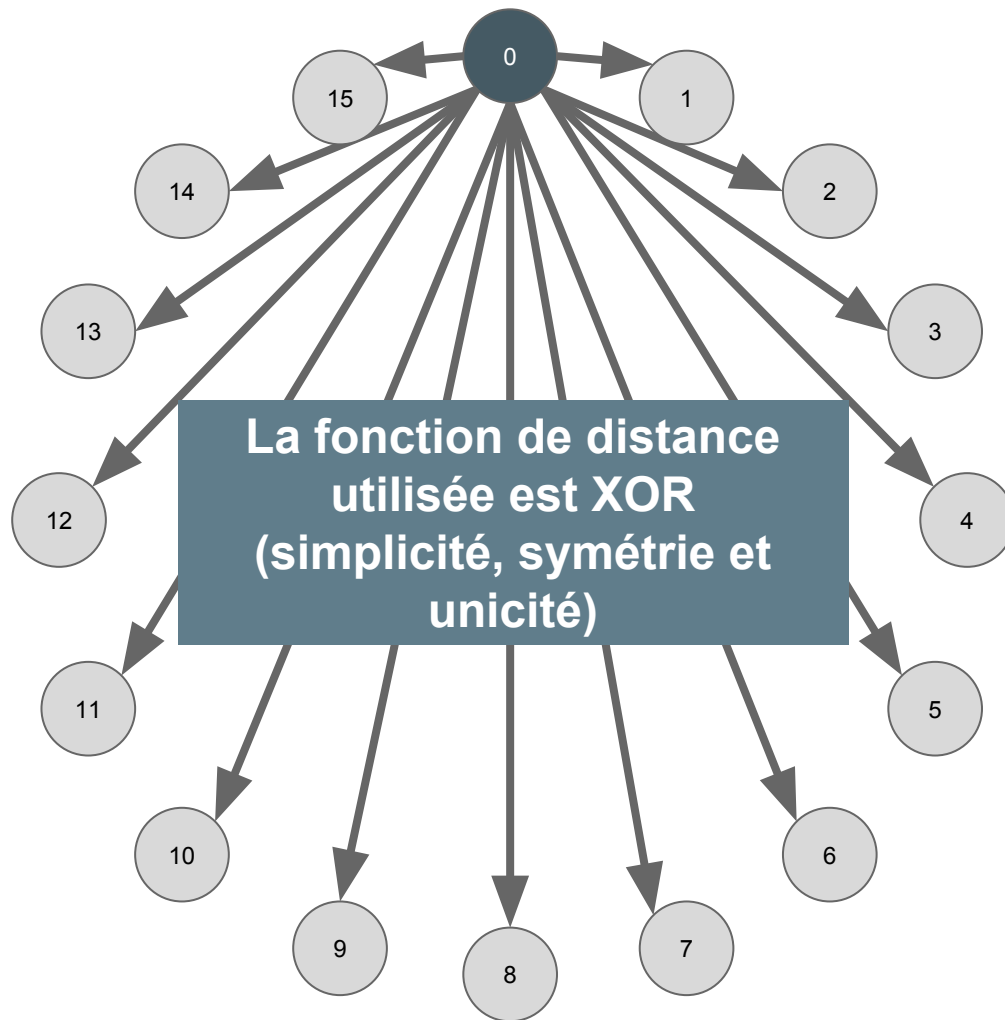


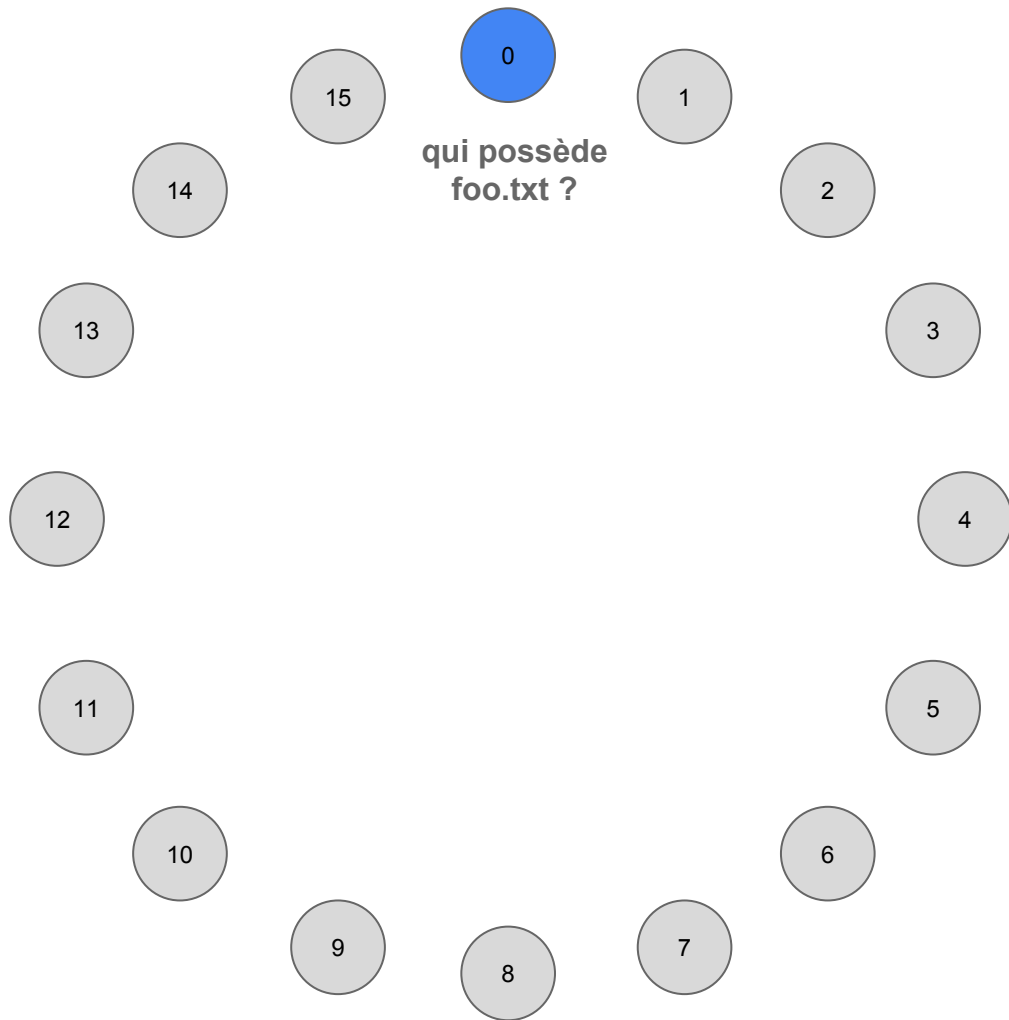




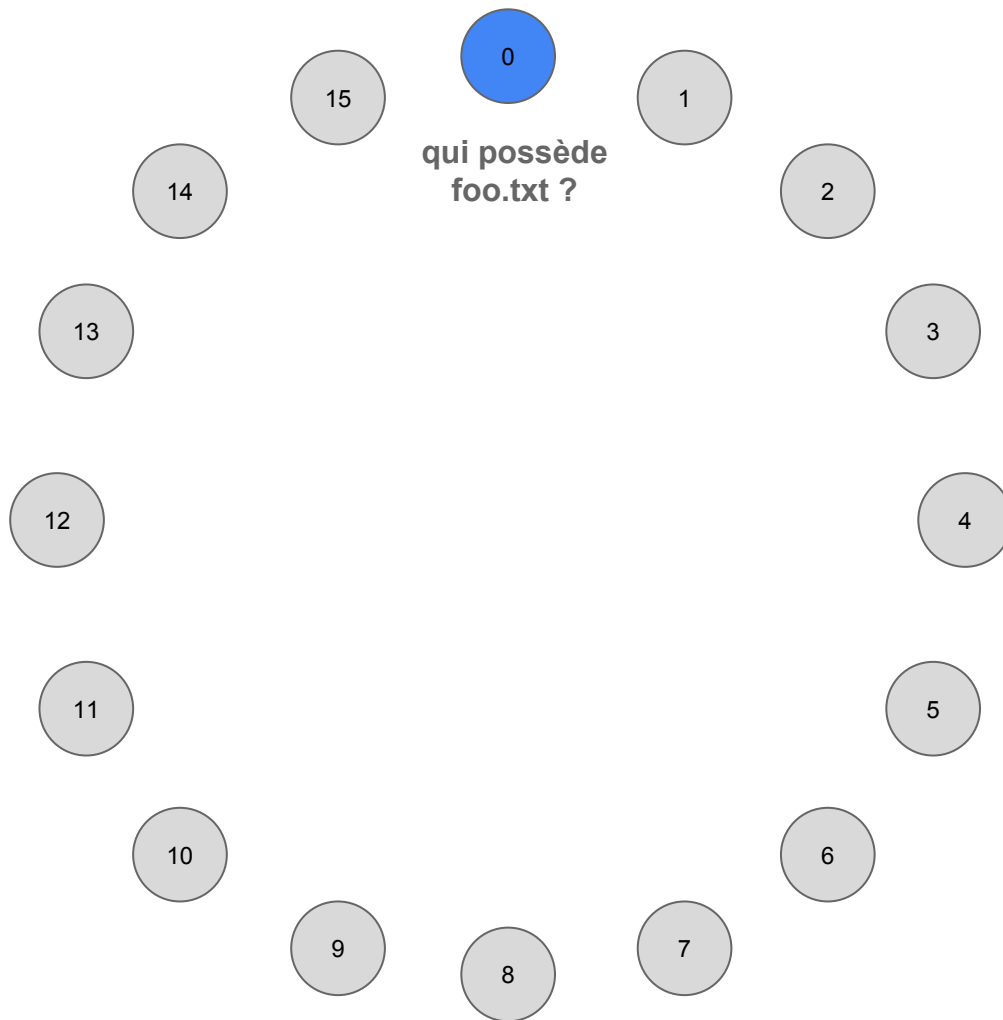


Si une node est absente du réseau, on prend le GUID au dessus



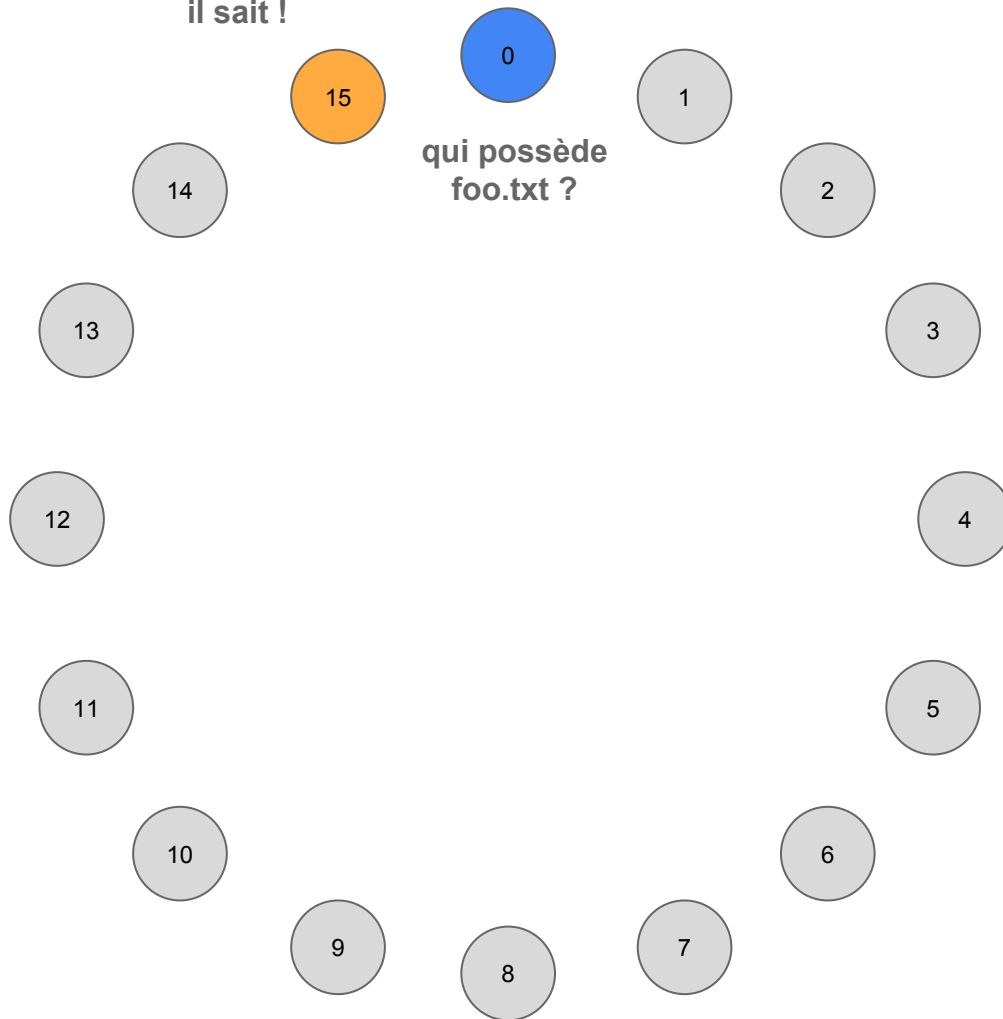


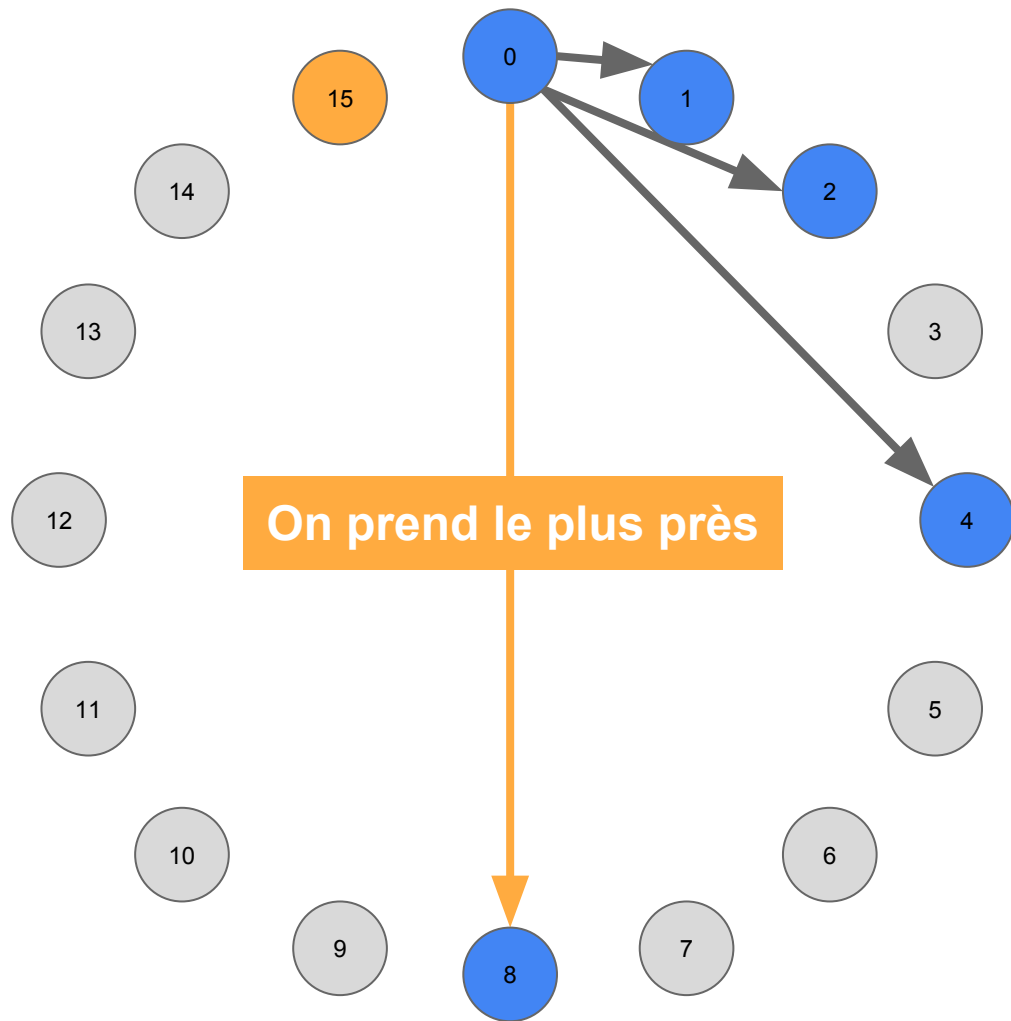
infohash(foo.txt) = 15

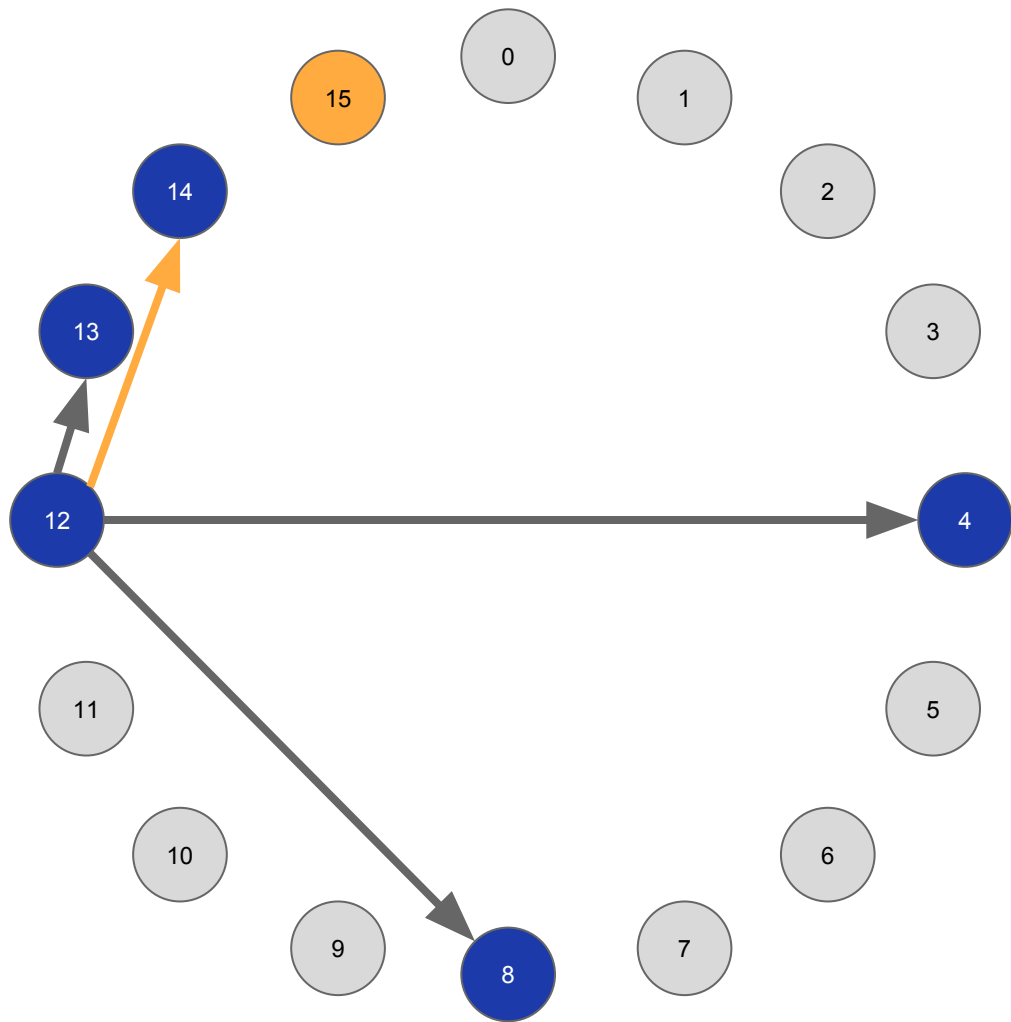


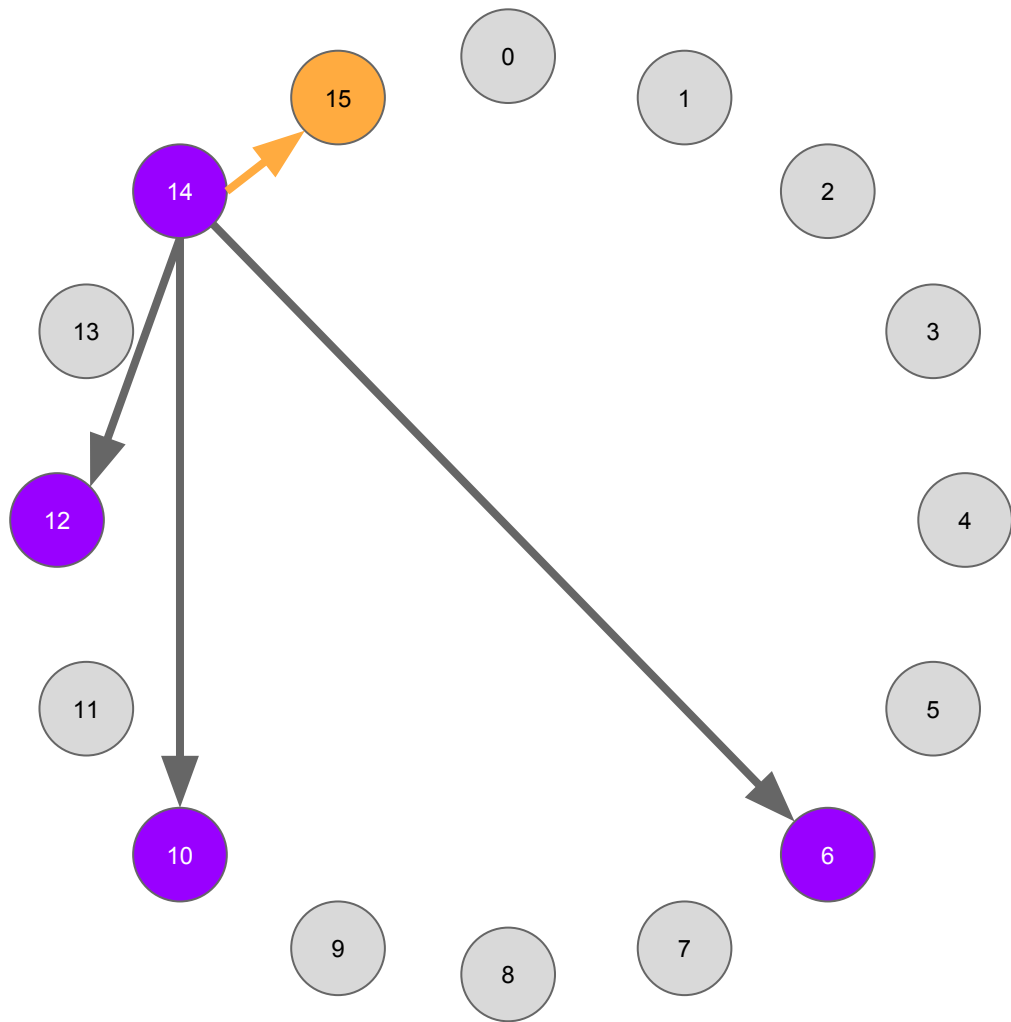
il sait !

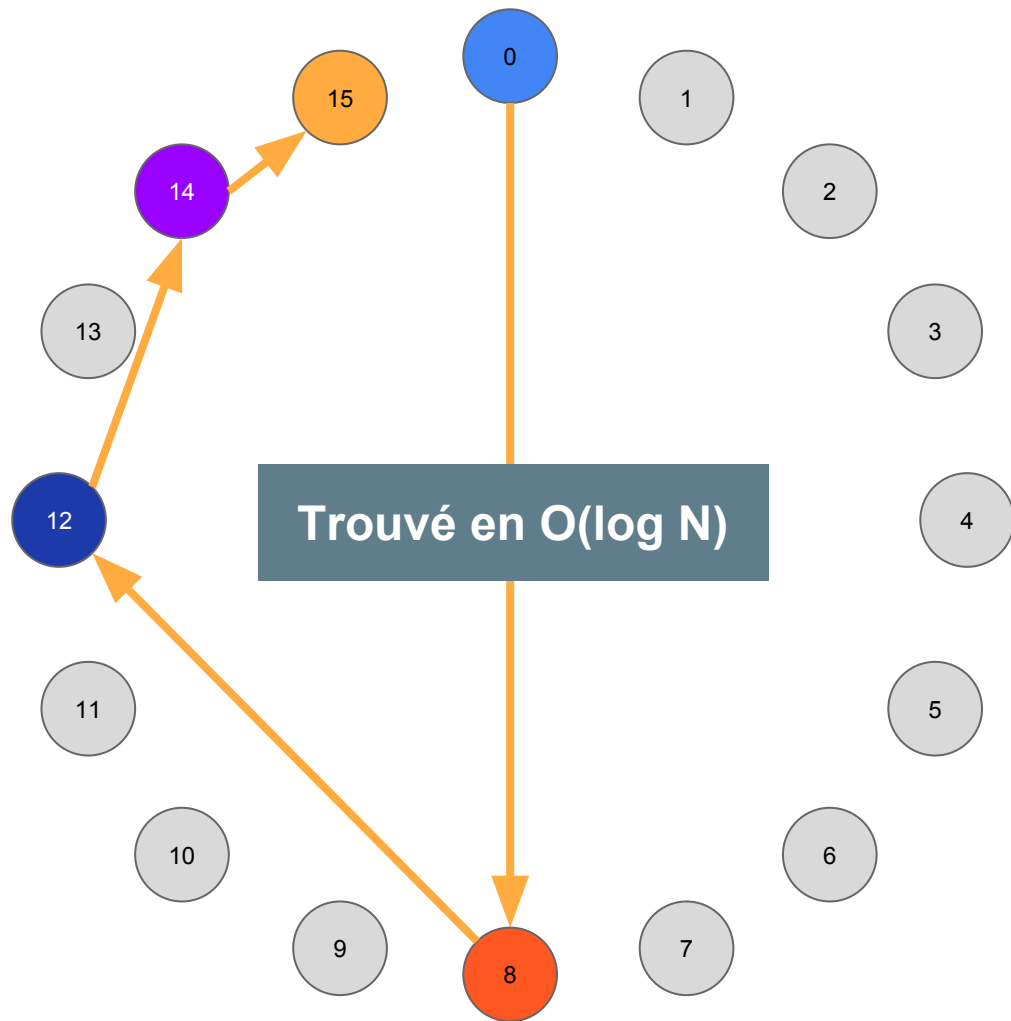
infohash(foo.txt) = 15











Démo

Les magnet links
sur Bittorrent

Hadopi

Haute Autorité pour la diffusion des œuvres
et la protection des droits sur internet

TELEMA ET LE STUDIO CANAL+ PRESENTENT UN FILM
PRODUIT PAR CHARLES GASSOT

LE FILM DE LES NULS



LA CITE DE LA PEUR

Une comédie familiale.

RÉALISÉ PAR ALAIN BERBERIAN

TELEMA ET LE STUDIO CANAL+ PRESENTENT UN FILM DE CHARLES GASSOT • LE FILM DE LES NULS LA CITE DE LA PEUR UNE COMEDIE FAMILIALE

CHANTAL LAUBY • ALAIN CHABAT • DOMINIQUE FARRUGIO • GÉRARD GARDON • GUY PARMANNI

Scénario original CHANTAL LAUBY • ALAIN CHABAT • DOMINIQUE FARRUGIO • Directeur de la photographie LAURENT DOLLAUD

Musique PHILIPPE CHAVY • Montage VÉRONIQUE PARINET

Producteur délégué CHARLES GASSOT • Producteur exécutif DOMINIQUE BRUNNER

Une production TELEMA • LE STUDIO CANAL+ • FRANCE 3 CINEMA • M6 FILMS



Audio Video Applications Games Porn Other ▼

Details for this torrent

La cit  de la Peur by LADB

Type: [Video > Movies](#)
Files: [2](#)
Size: 691.28 MiB (724855831 Bytes)
Spoken language(s): French
Texted language(s): French

Uploaded: 2008-05-02 19:15:37 GMT
By: [wazany](#)
Seeders: 13
Leechers: 0
Comments: 1

Info Hash:

96BFF9E1F47398C3807071B55AD658ED50F2042F

[GET THIS TORRENT](#) [PLAY/STREAM TORRENT](#)

(Problems with magnets links are fixed by upgrading your [torrent client!](#))

Synopsis :

Odile Deray, attach e de presse, vient au Festival de Cannes pour pr senter le film "Red is Dead". Malheureusement, celui-ci est d'une telle faiblesse que personne ne souhaite en faire l' cho. Mais lorsque les projectionnistes du long-m trage en question meurent chacun leur tour dans d' tranges circonstances, "Red is dead" b n ficie d'une incroyable publicit . Serge Karamazov est alors charg  de prot ger le nouveau projectionniste du film...

```
var _ = require('lodash')
var DHT = require('bittorrent-dht')
var geoip = require('geoip-lite-country')
```

```
var _ = require('lodash')
var DHT = require('bittorrent-dht')
var geoup = require('geoup-lite-country')
```

```
var peers = []
var dht = new DHT()
```

```
var _ = require('lodash')
var DHT = require('bittorrent-dht')
var geoup = require('geoup-lite-country')
```

```
var peers = []
var dht = new DHT()
```

```
dht.on('peer', function (peer, infoHash, from) {
  var geo = geoup.lookup(peer.host)
  peers.push(
    peer.host + ':' +
    peer.port + ':' +
    geo.country
  )
})
```

```
var _ = require('lodash')
var DHT = require('bittorrent-dht')
var geoup = require('geoup-lite-country')

var peers = []
var dht = new DHT()

dht.on('peer', function (peer, infoHash, from) {
  var geo = geoup.lookup(peer.host)
  peers.push(
    peer.host + ':' +
    peer.port + ':' +
    geo.country
  )
})
```

```
setTimeout(function () {
  dht.destroy()
  console.log(_.uniq(peers))
}, 10 * 1000)
```

```
var _ = require('lodash')
var DHT = require('bittorrent-dht')
var geoup = require('geoup-lite-country')
```

```
var peers = []
var dht = new DHT()
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dht.on('peer', function (peer, infoHash, from) {
  var geo = geoup.lookup(peer.host)
  peers.push(
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    peer.port + ':' +
    geo.country
  )
})
```

```
setTimeout(function () {
  dht.destroy()
  console.log(_.uniq(peers))
}, 10 * 1000)
```

`dht.lookup(infoHash)`

```
var _ = require('lodash')
var DHT = require('bittorrent-dht')
var geoup = require('geoup-lite-country')

var peers = []
var dht = new DHT()

dht.on('peer', function (peer, infoHash, from) {
  var geo = geoup.lookup(peer.host)
  peers.push(
    peer.host + ':' +
    peer.port + ':' +
    geo.country
  )
})
```

```
setTimeout(function () {
  dht.destroy()
  console.log(_.uniq(peers))
}, 10 * 1000)
```

```
dht.lookup(infoHash)
```

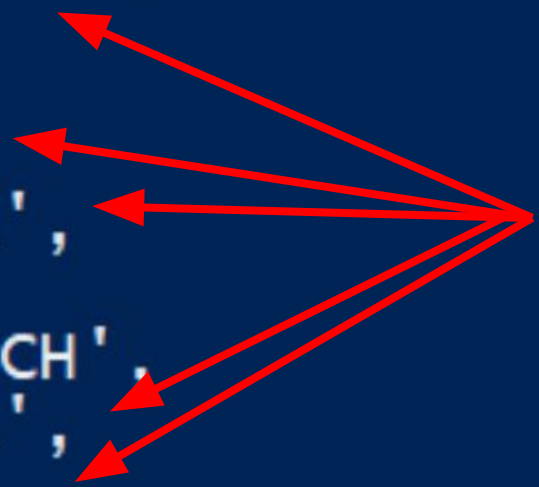
Done crawling

Found 12 peers

```
[ '91.138.225.█:62762:GR',  
  '178.194.206.█:17132:CH',  
  '5.51.42.█:33457:FR',  
  '51.15.3.█:54728:NL',  
  '5.51.42.█:45442:FR',  
  '88.191.54.█:62348:FR',  
  '51.15.3.█:51413:NL',  
  '178.194.206.█:60482:CH',  
  '82.253.38.█:61818:FR',  
  '82.249.8.█:33876:FR',  
  '178.194.206.█:45429:CH',  
  '178.194.206.█:37603:CH' ]
```

Crawl ended

Done in 10.57s.



Peer to Peer

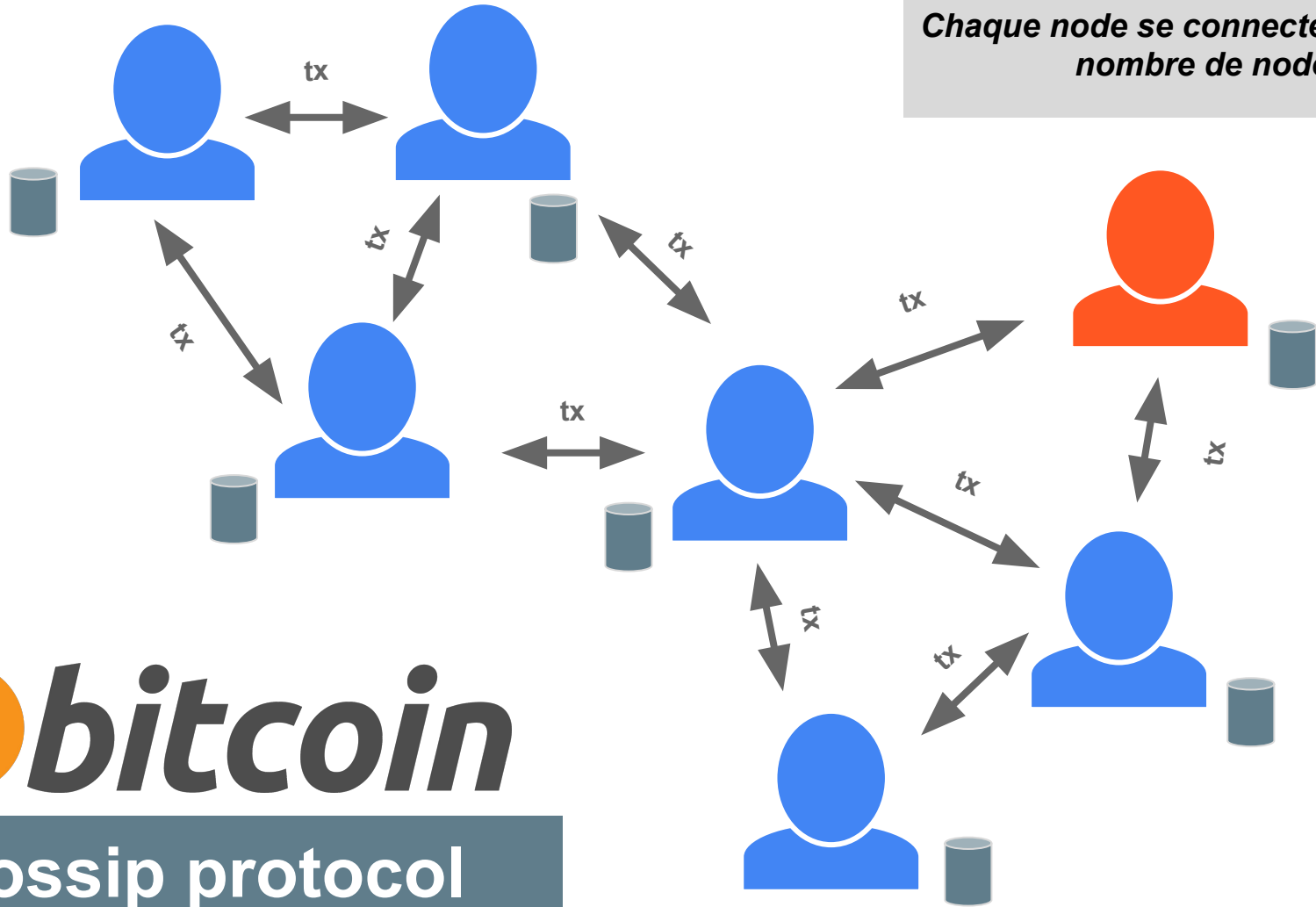


Privé



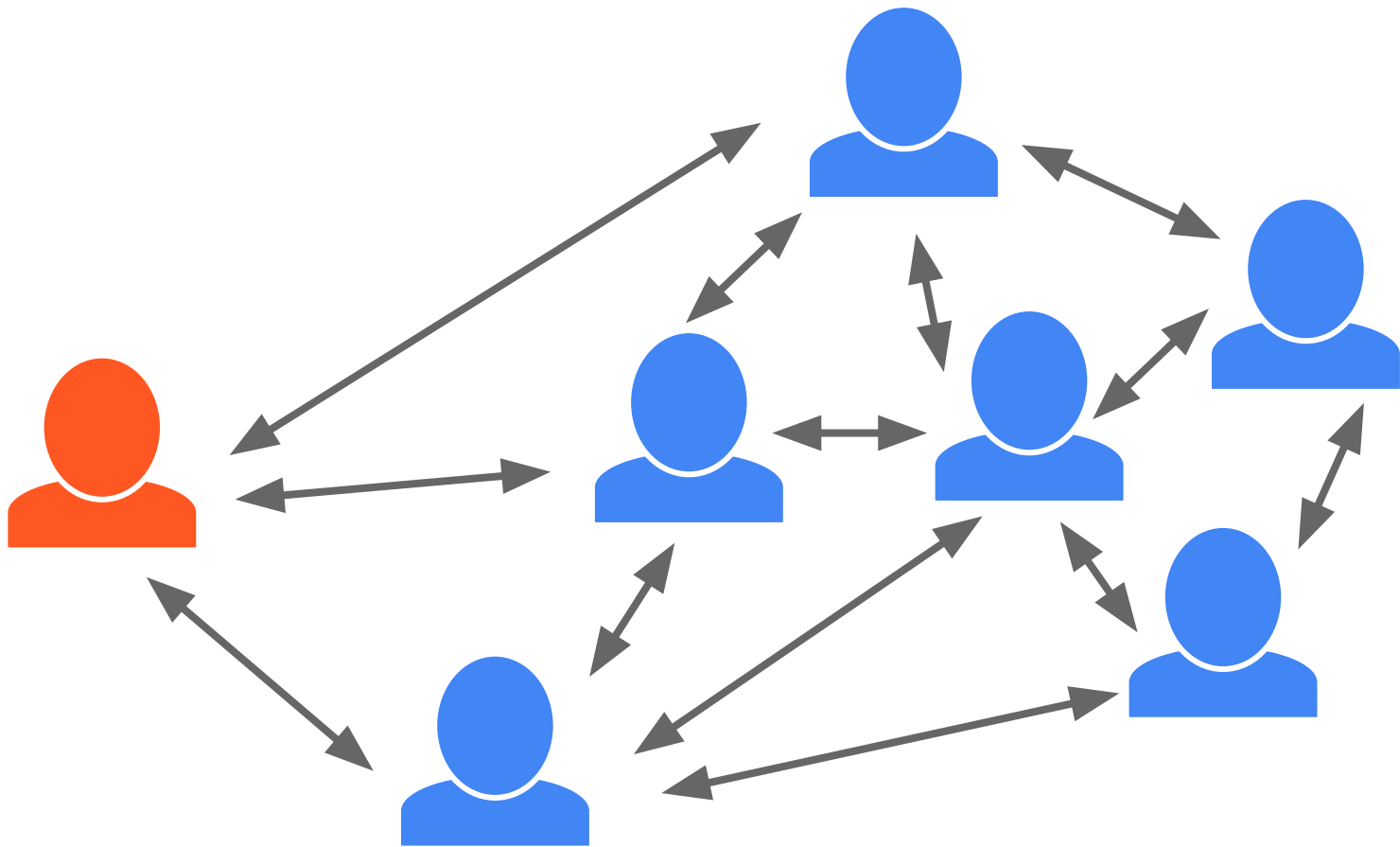
Et la blockchain dans tout ca ?

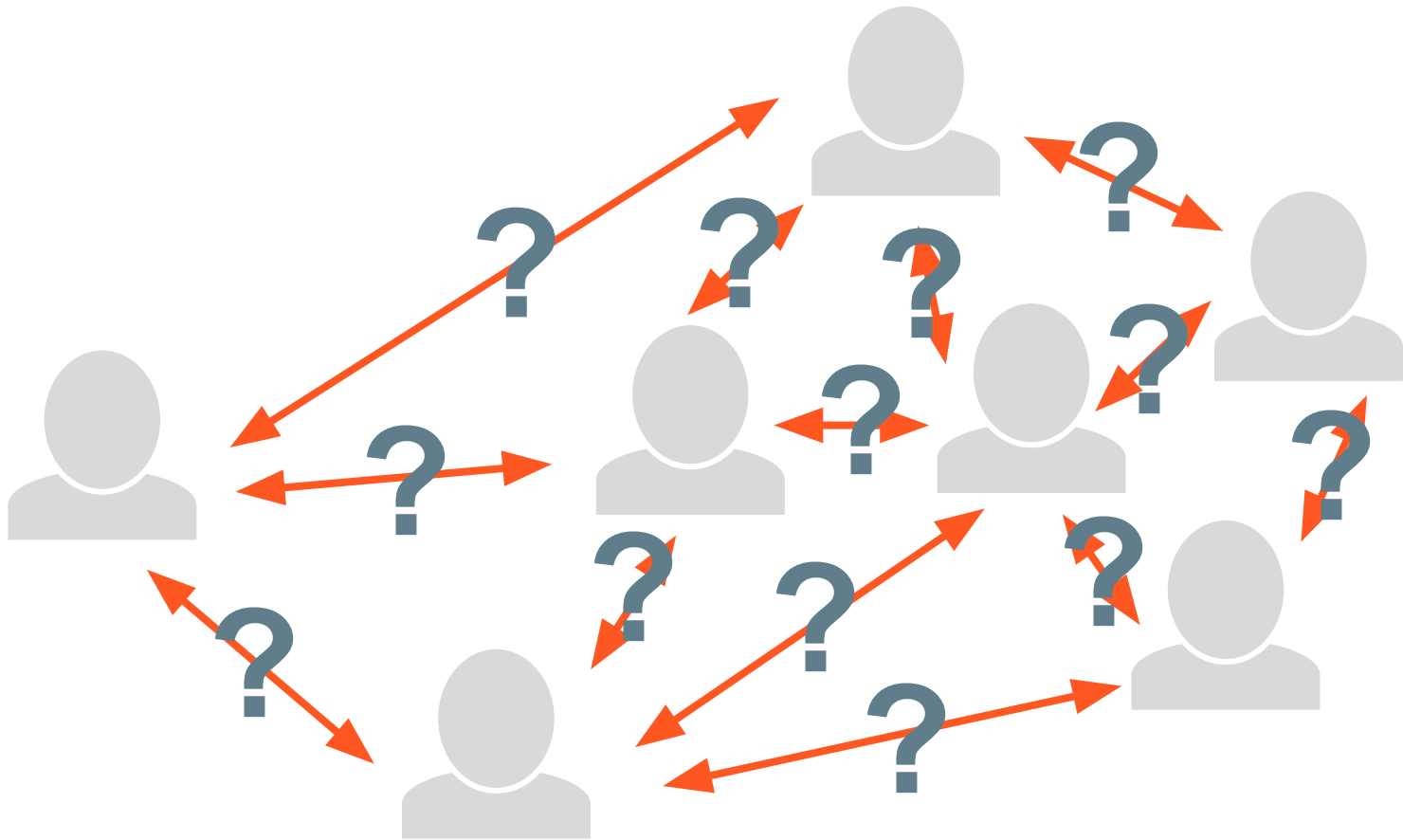
Chaque node se connecte à un grand nombre de nodes



 **bitcoin**

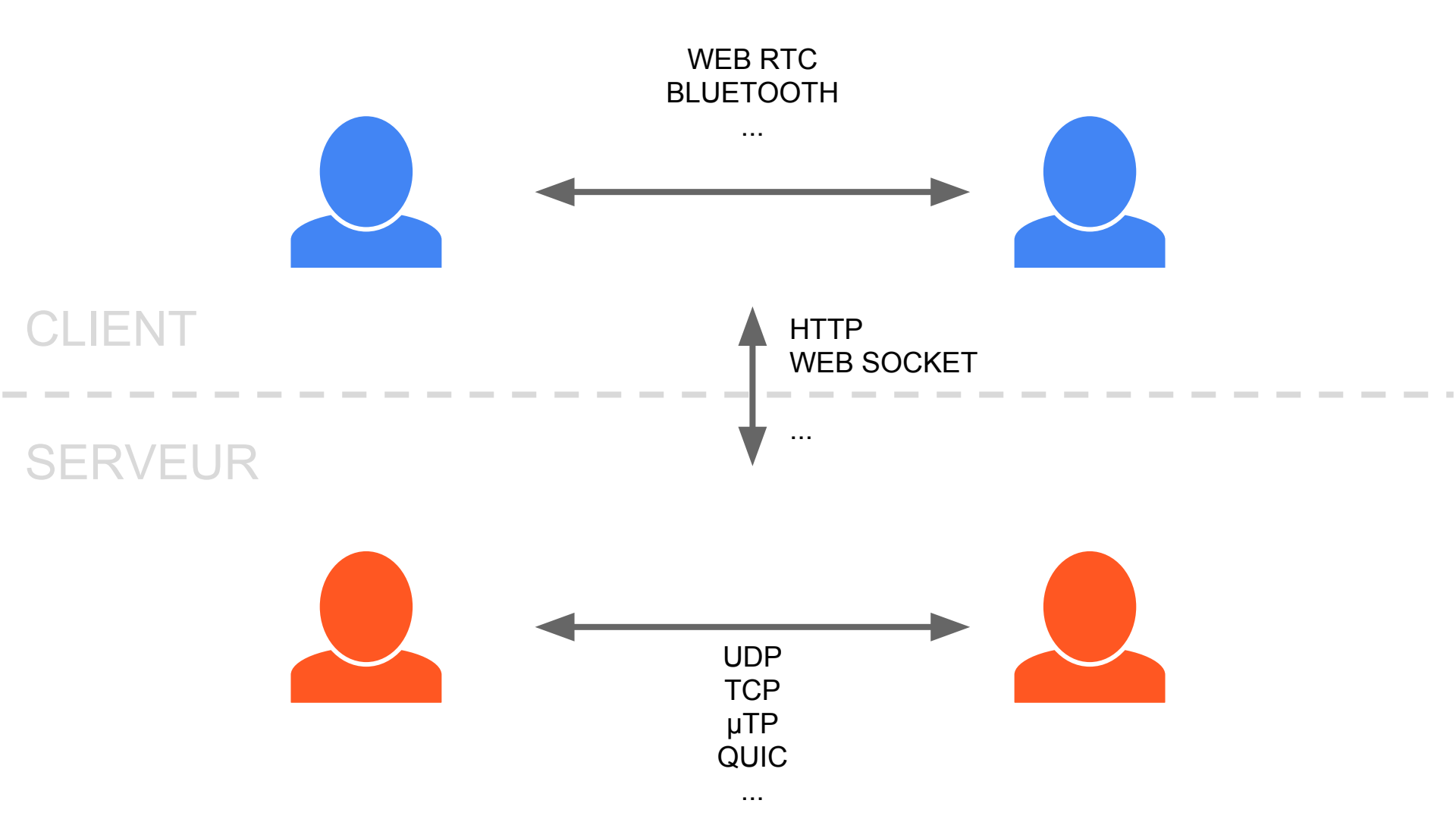
Gossip protocol

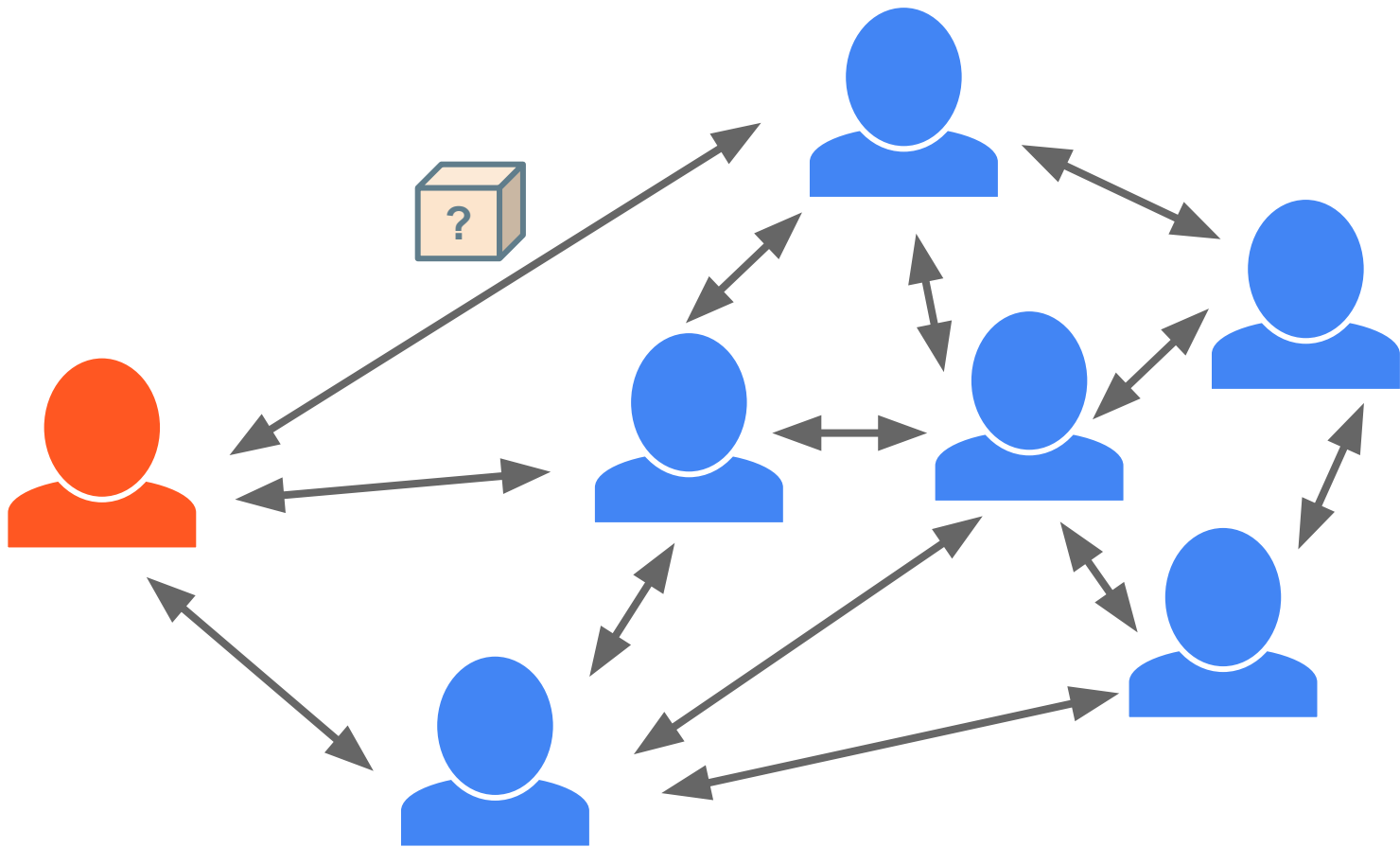


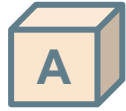




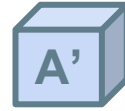
Transport







diff ?



The image features a stack of papers, possibly a document or a book, with a teal overlay. The text "Data integrity" is prominently displayed in white, bold, sans-serif font at the bottom of the image. The background is dark and textured, suggesting a wooden surface or a similar material.

Data integrity

Merkle “Tree”

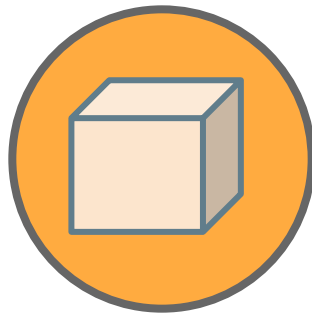
**Merkle Directed Acyclic
Graph**

Merkle “Tree”

Merkle Directed Acyclic

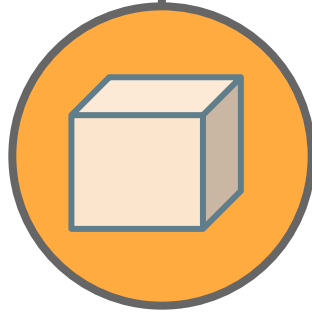
Graph





DATA #1

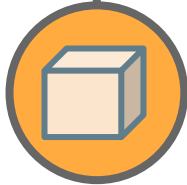
HASH #1



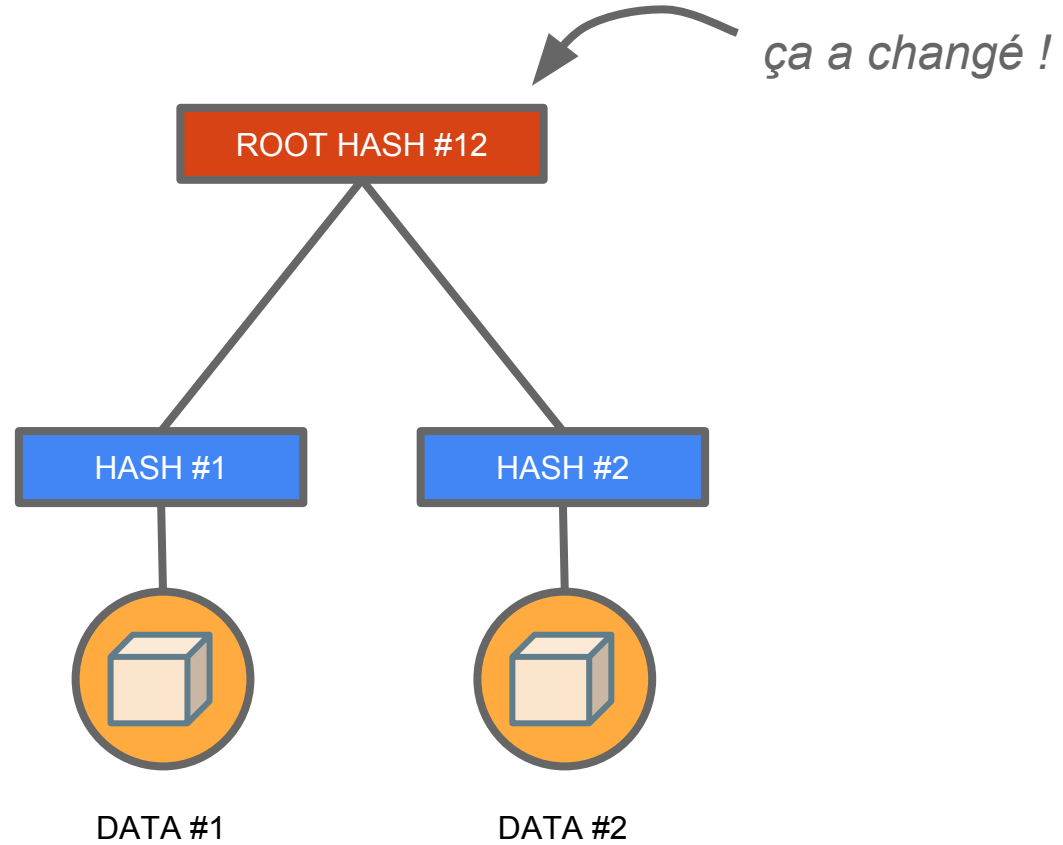
DATA #1

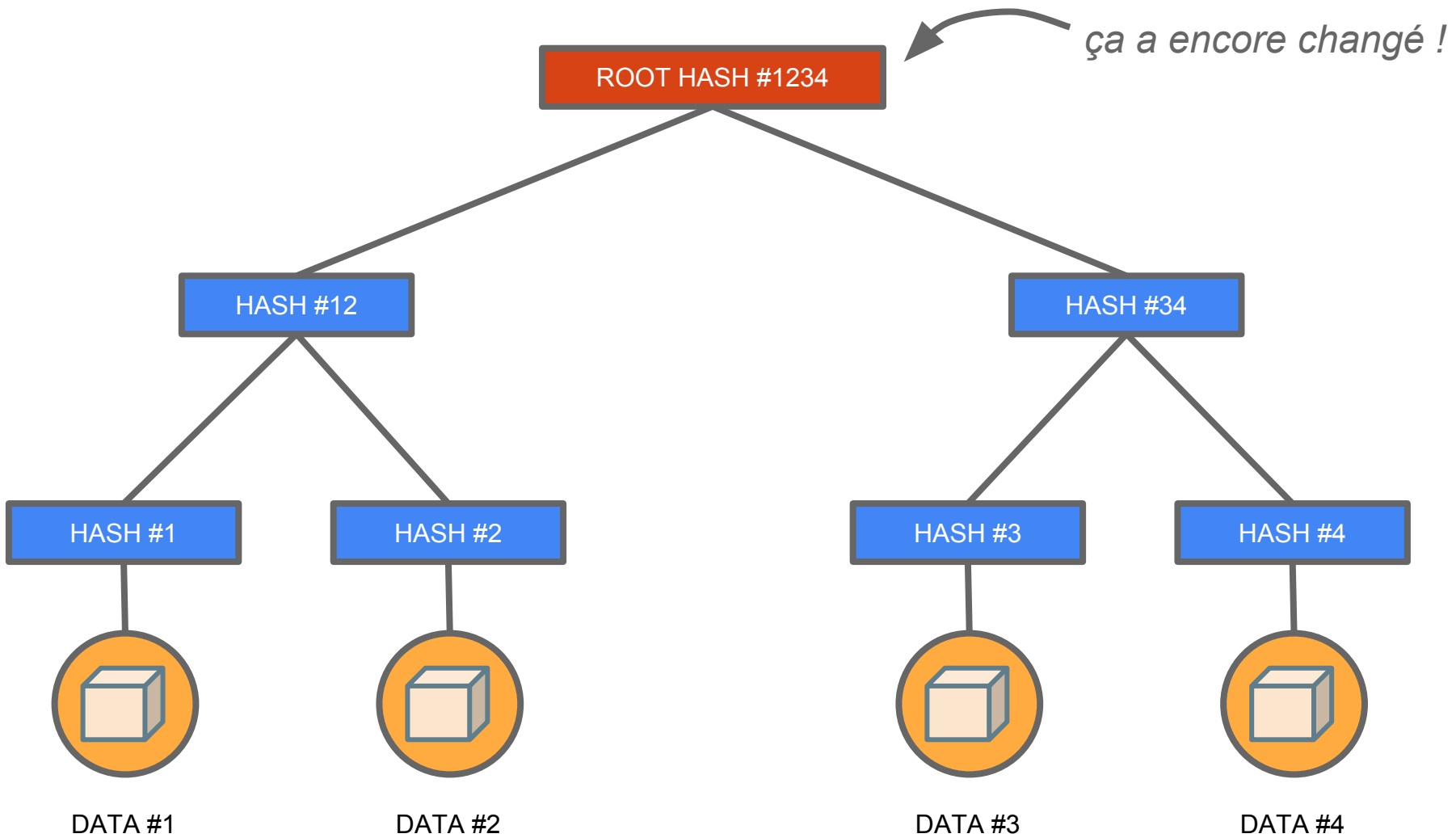
ROOT HASH #1

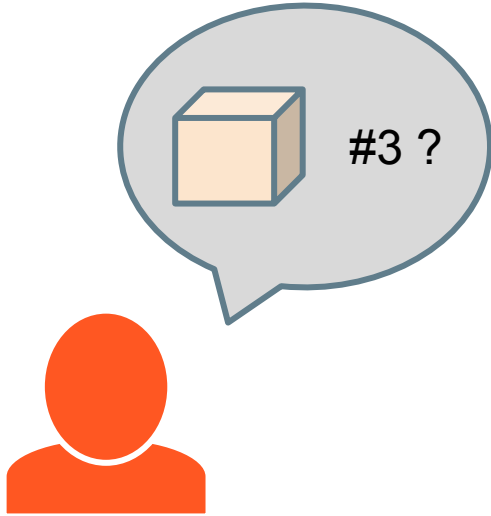
HASH #1



DATA #1









*je connais le
root hash de
source sûre*

ROOT HASH #1234

HASH #12

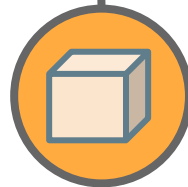
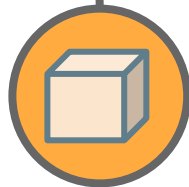
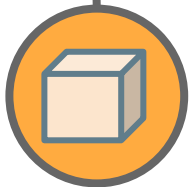
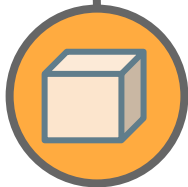
HASH #34

HASH #1

HASH #2

HASH #3

HASH #4

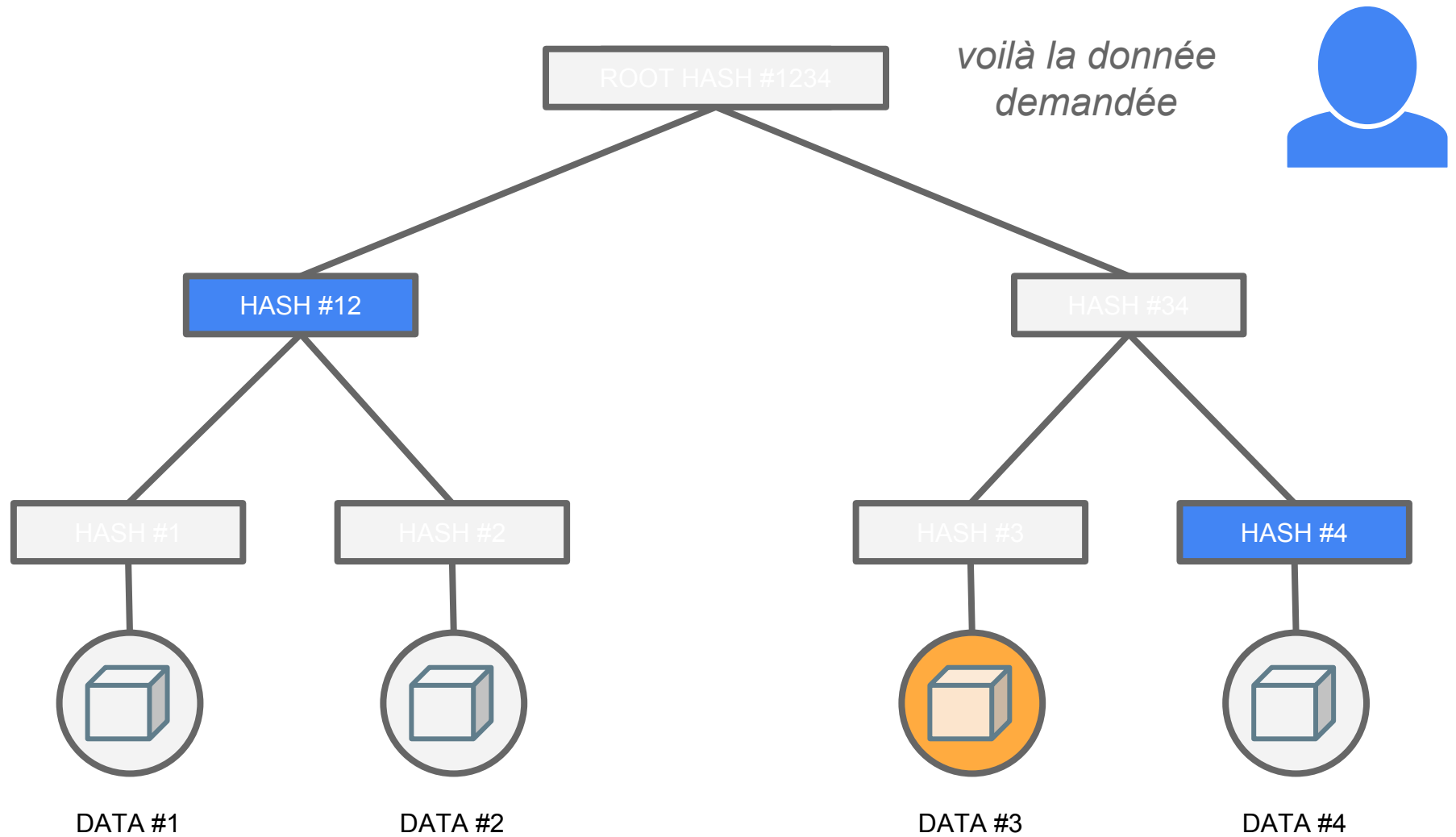


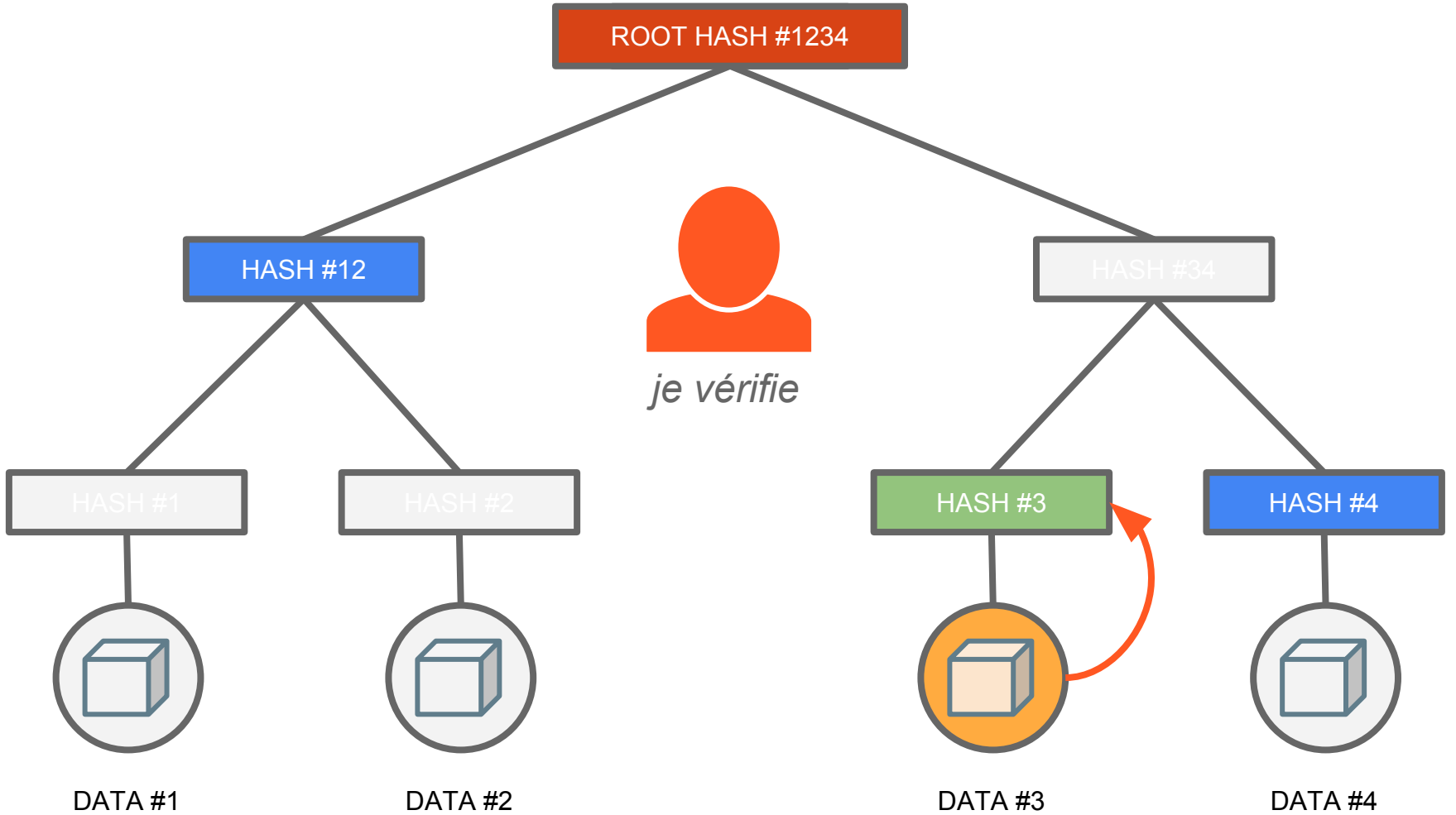
DATA #1

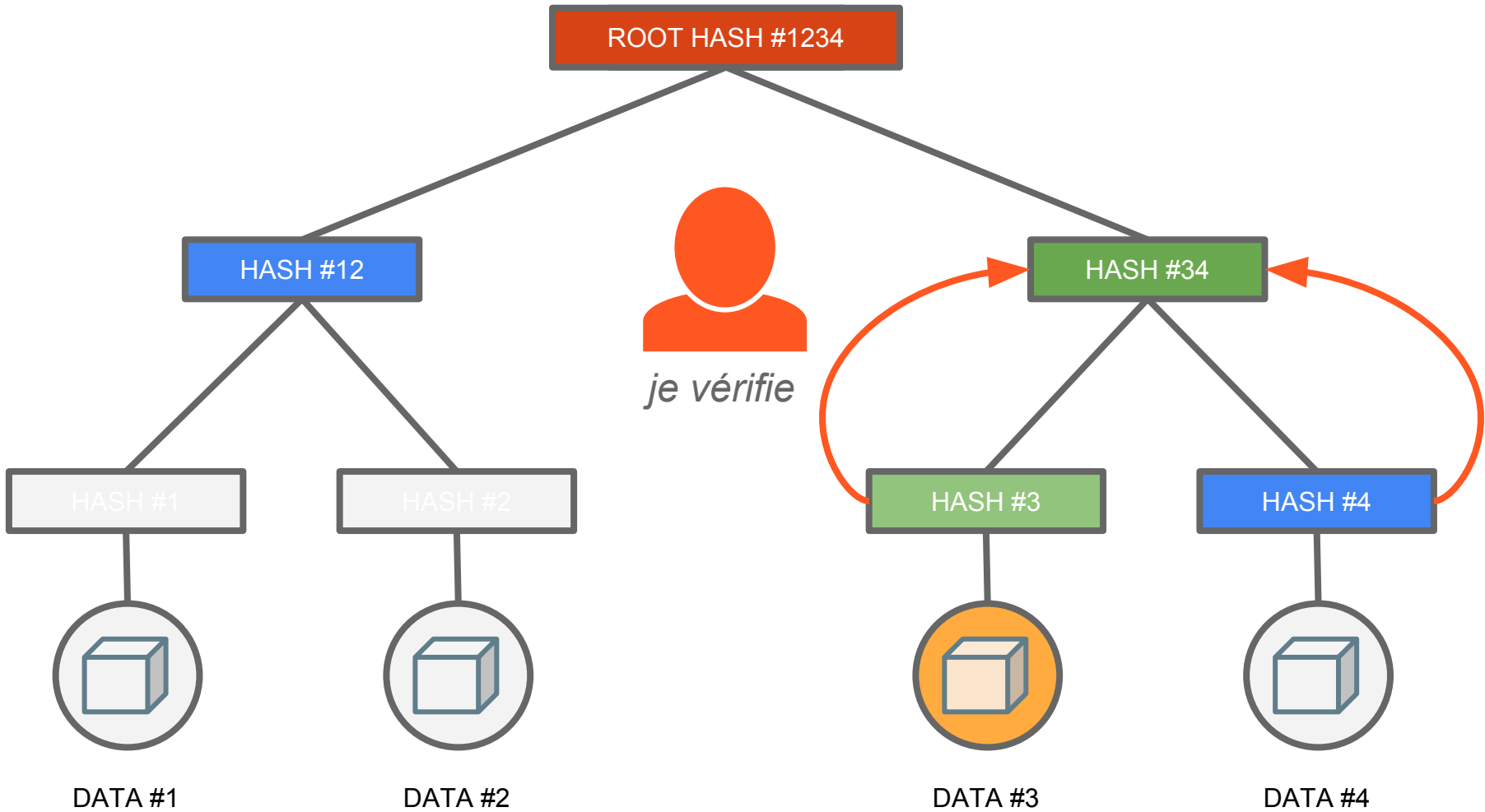
DATA #2

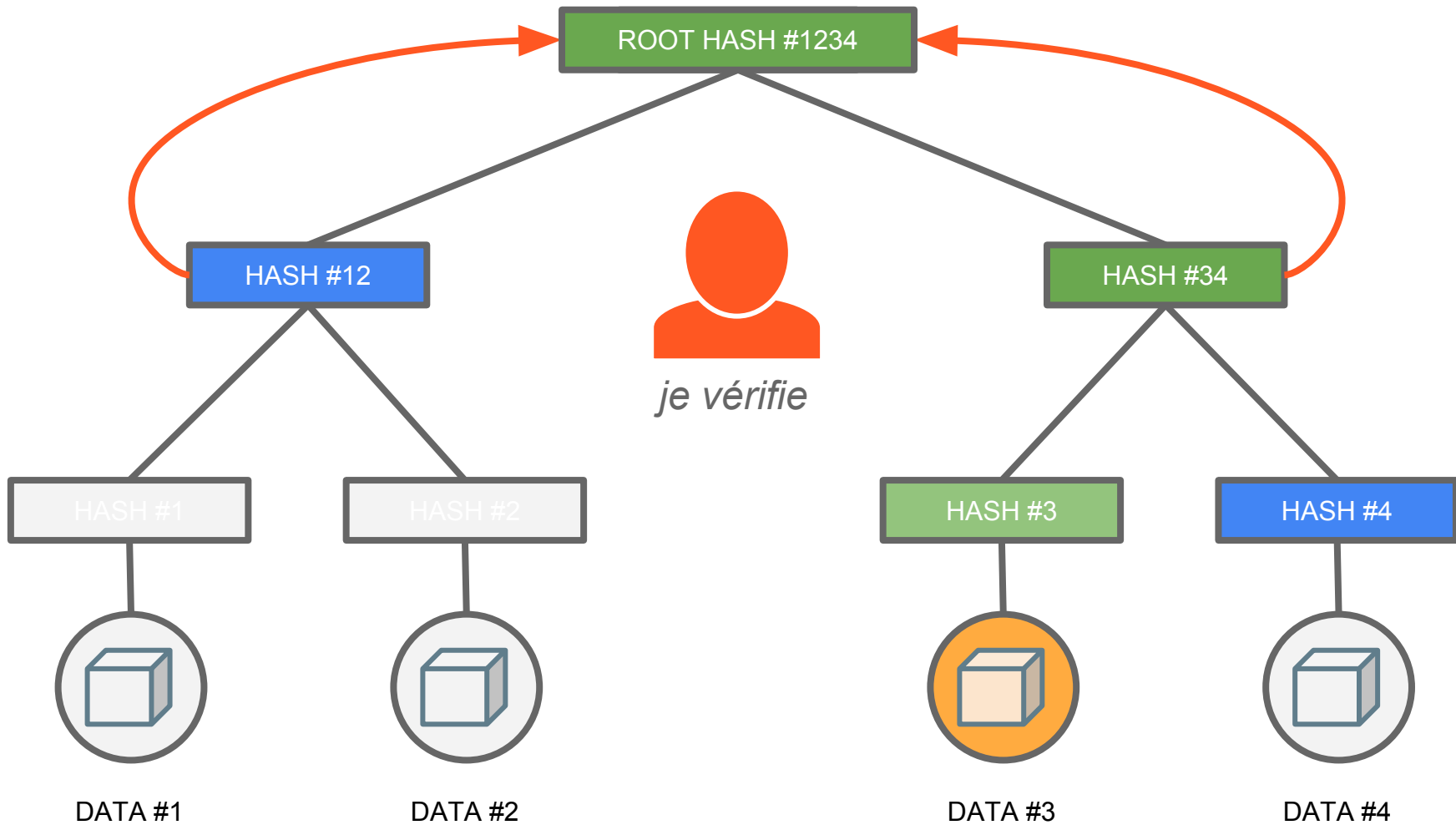
DATA #3

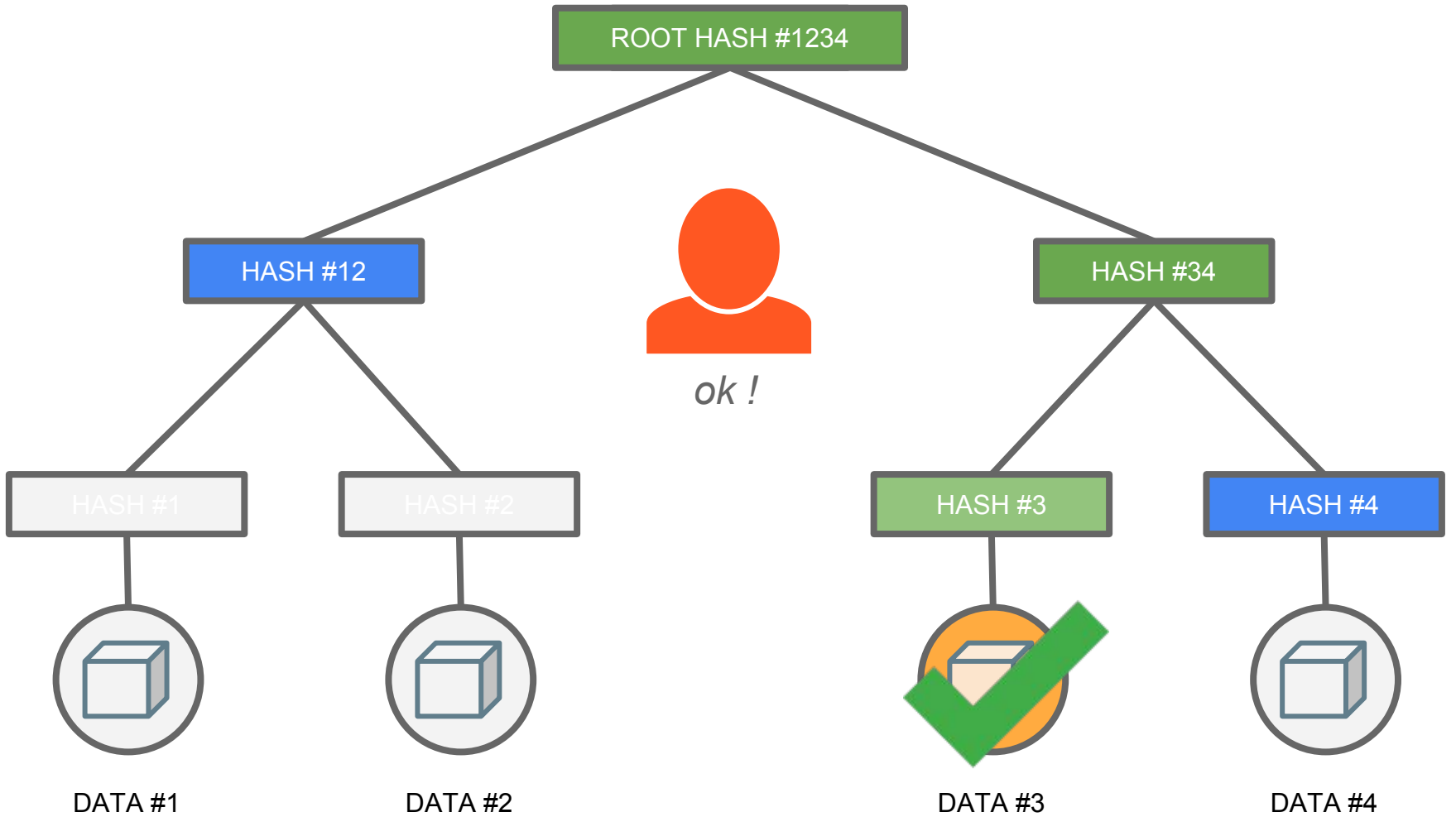
DATA #4







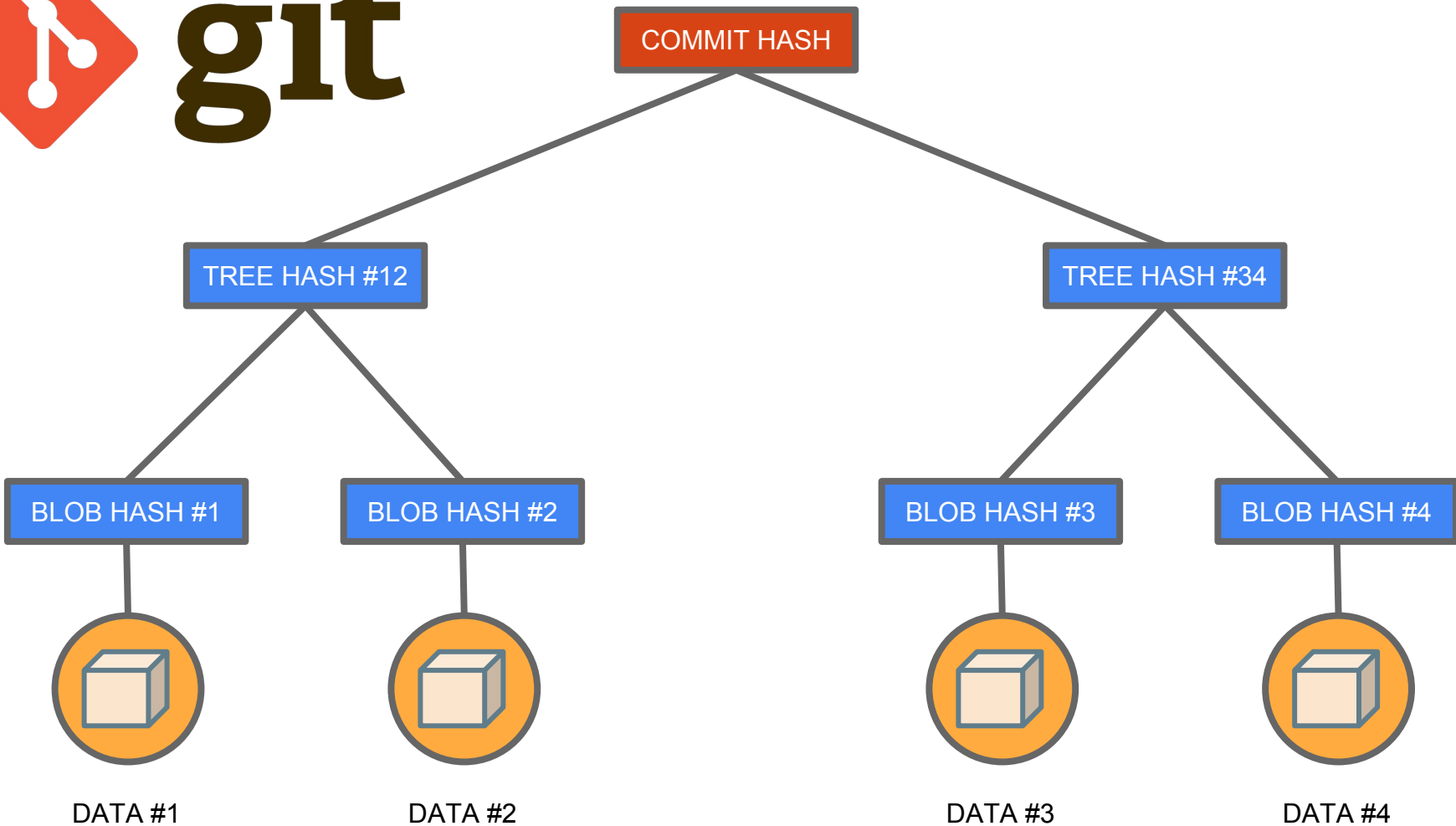


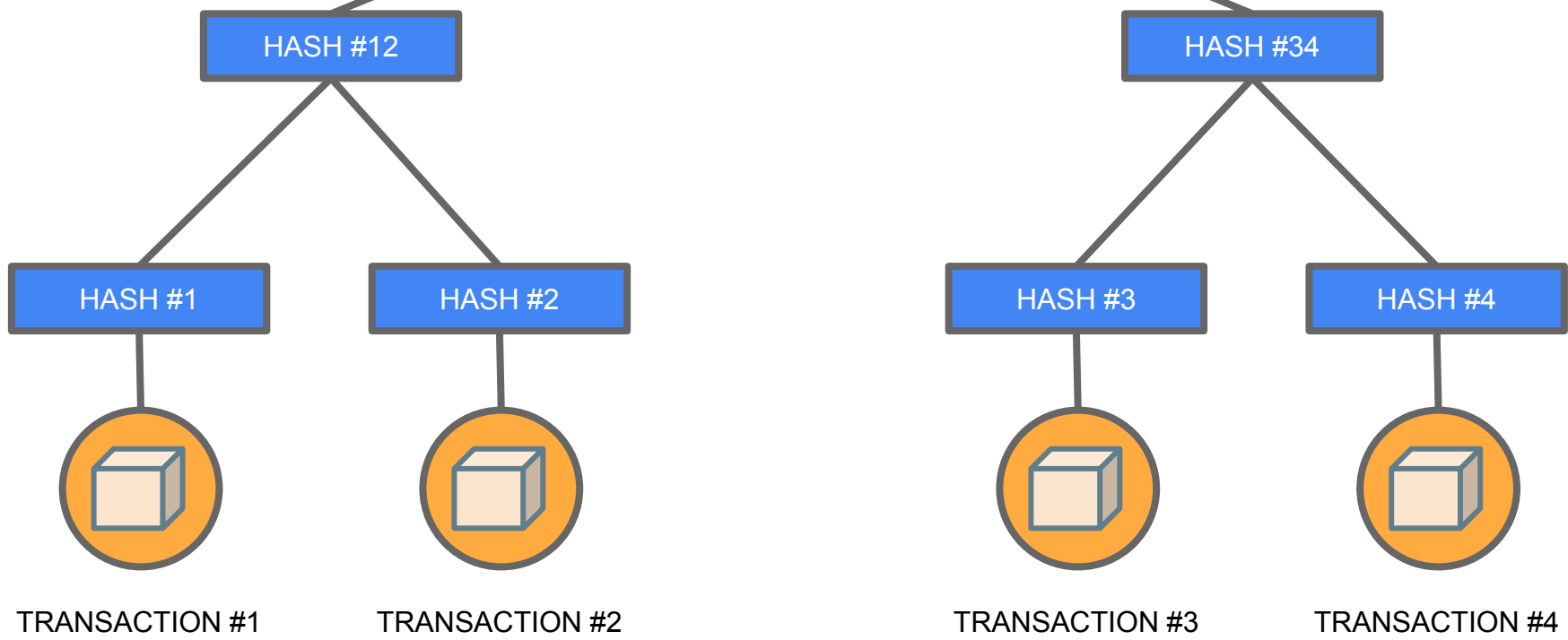
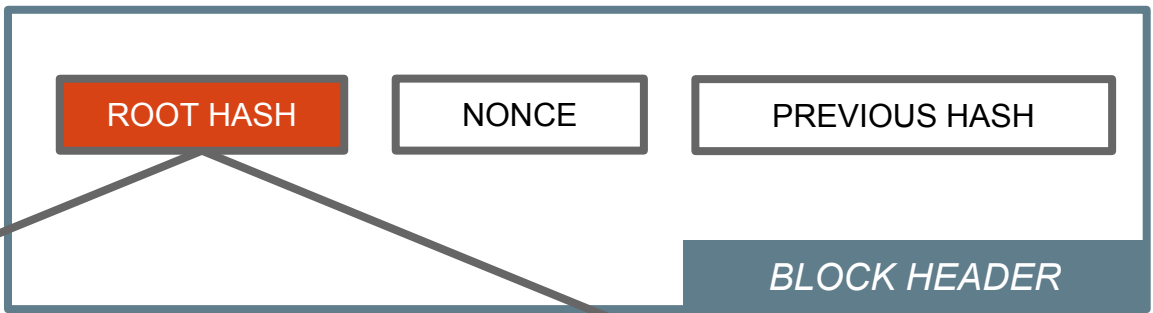


Utilisé ?



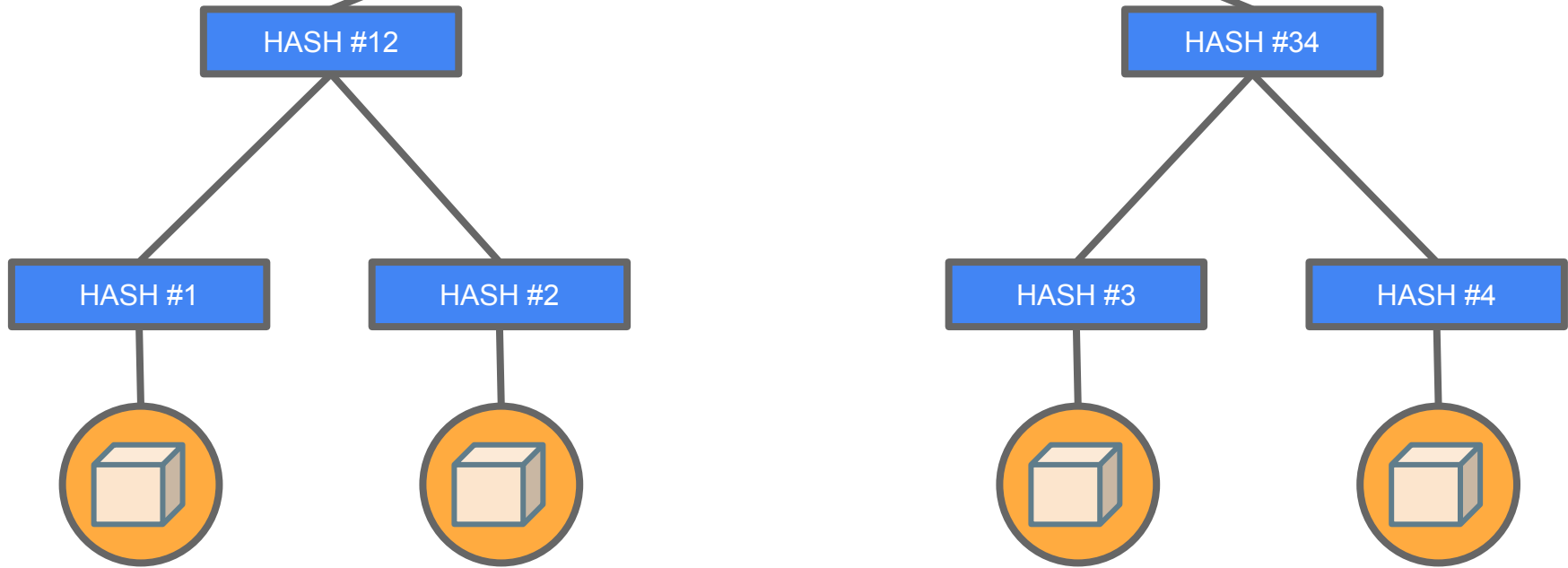
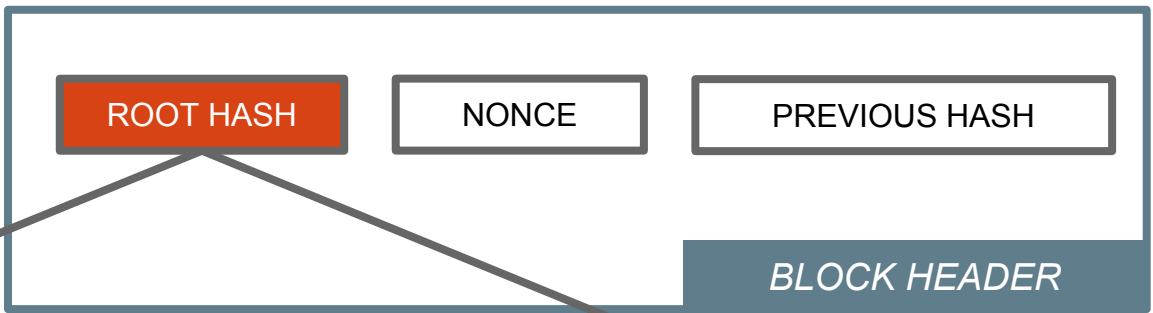
git







ETHEREUM

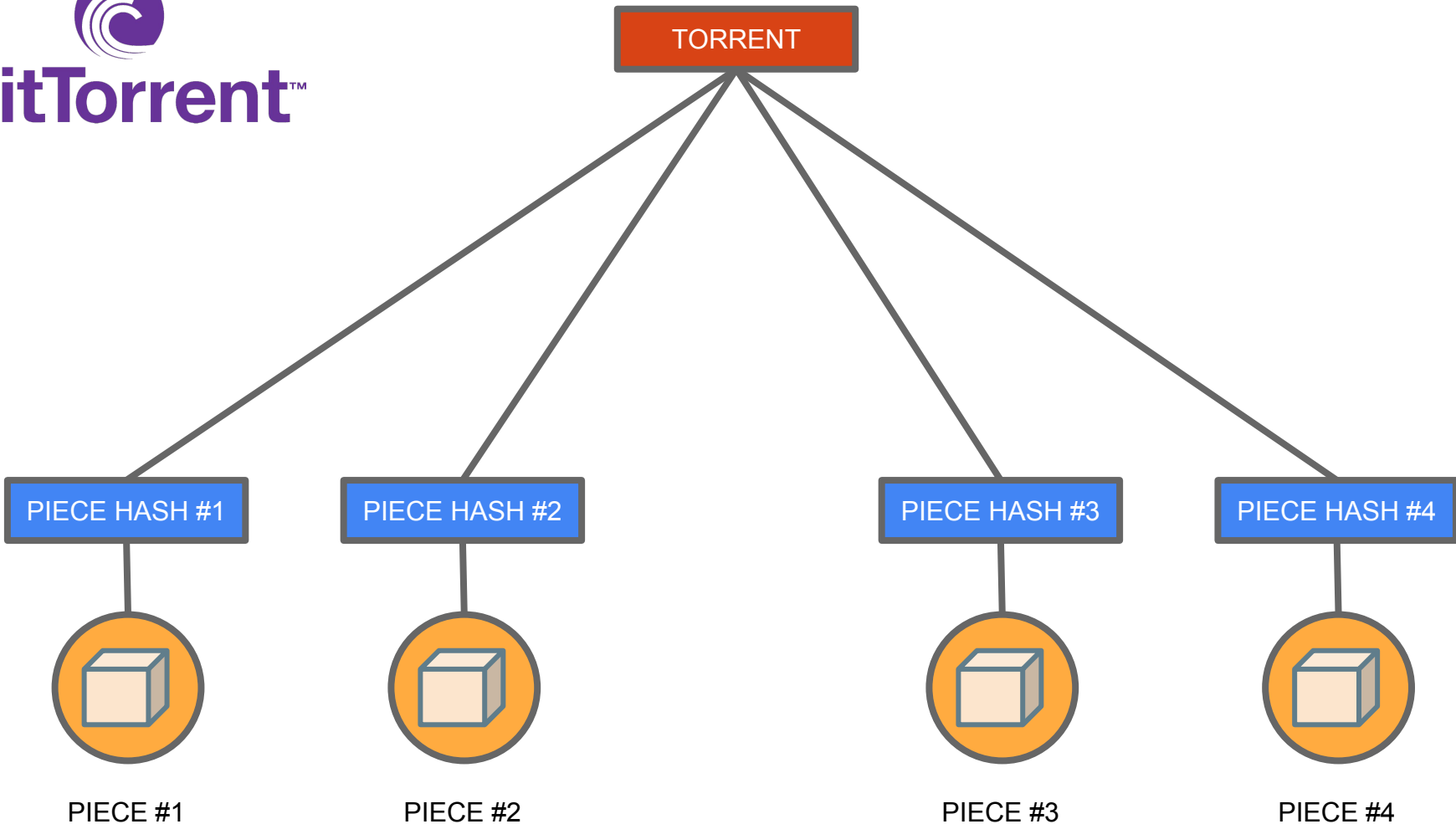


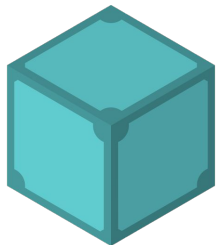
TRANSACTION #1

TRANSACTION #2

TRANSACTION #3

TRANSACTION #4





IPFS

/HASH

/FOO/ HASH

/BAR/ HASH

/FOO/CAT.JPG HASH

/FOO/INDEX.HTML HASH

/BAR/PACKAGE.JSON HASH

/BAR/APP.JS HASH



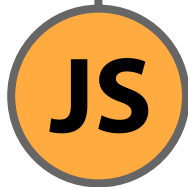
CAT.JPG



INDEX.HTML



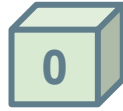
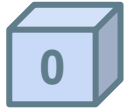
PACKAGE.JSON



APP.JS


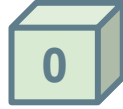


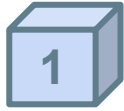
<https://ipld.io>



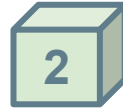


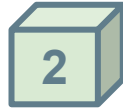
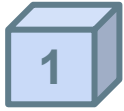
+1

A light blue 3D cube with a dark blue outline. The front face of the cube has the number '1' written on it.



+2







Conflict resolution

Conflict-free Replicated Data Types

CRDT ?



INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE

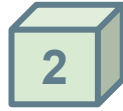
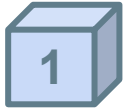
Conflict-free Replicated Data Types

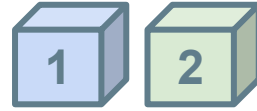
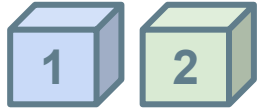
Marc Shapiro, INRIA & LIP6, Paris, France

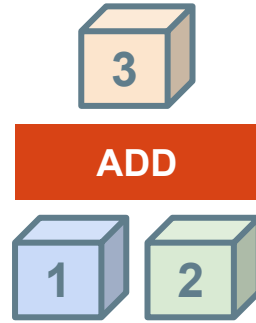
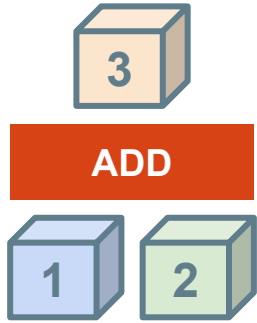
Nuno Preguiça, CITI, Universidade Nova de Lisboa, Portugal

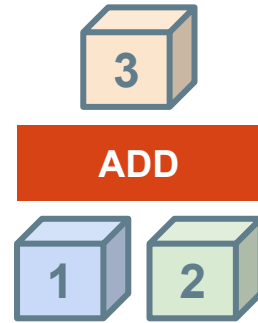
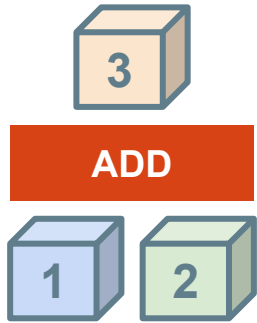
Carlos Baquero, Universidade do Minho, Portugal

Marek Zawirski, INRIA & UPMC, Paris, France

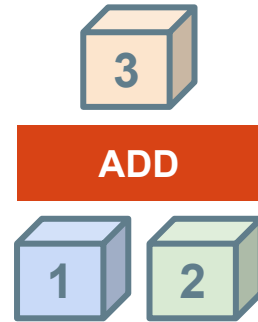
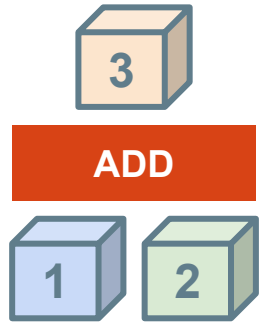






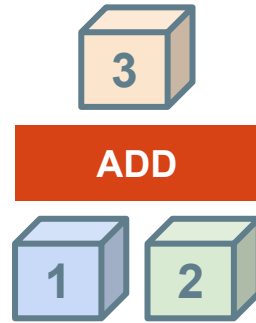
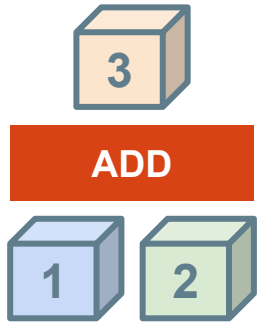


Grow-only Counter



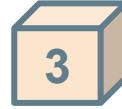
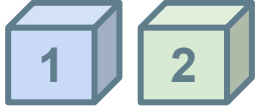
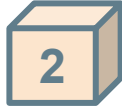


-1



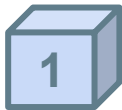
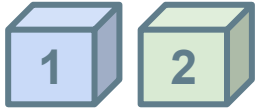
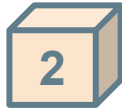


-1

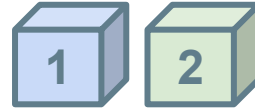
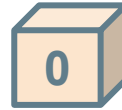


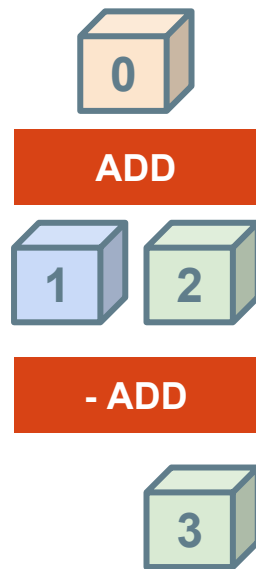
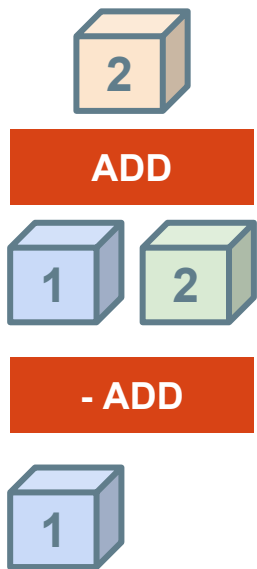


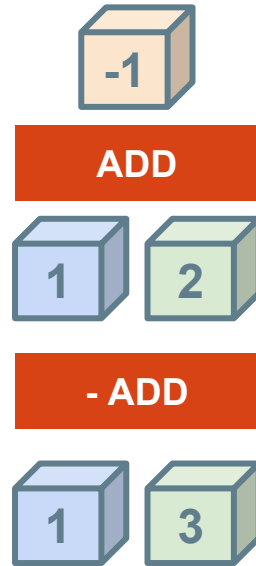
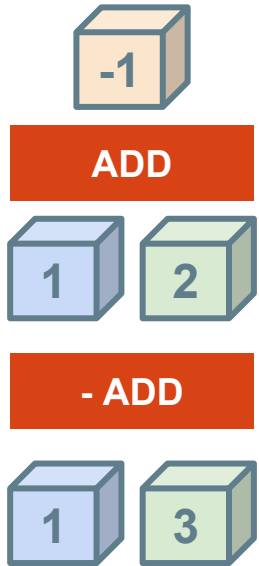
-1

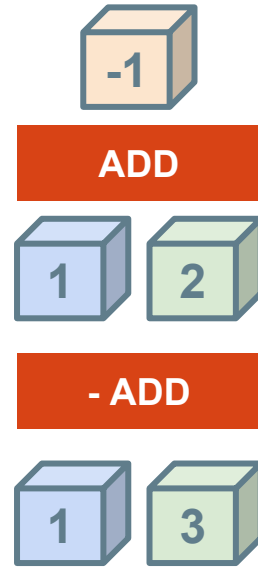
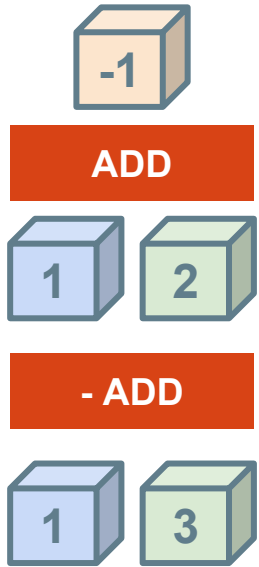


-3

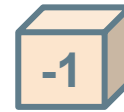
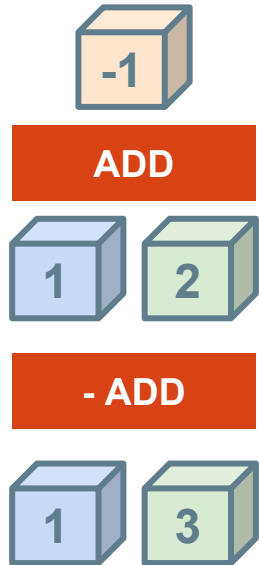




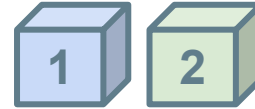




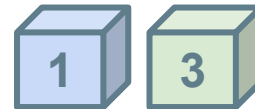
Positive-Negative Counter



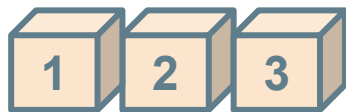
ADD



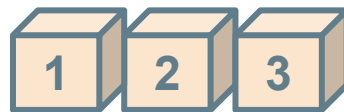
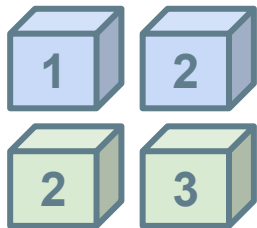
- ADD



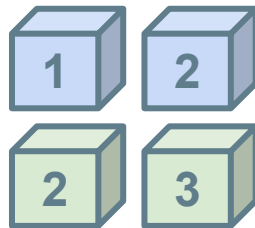
Grow-only Set



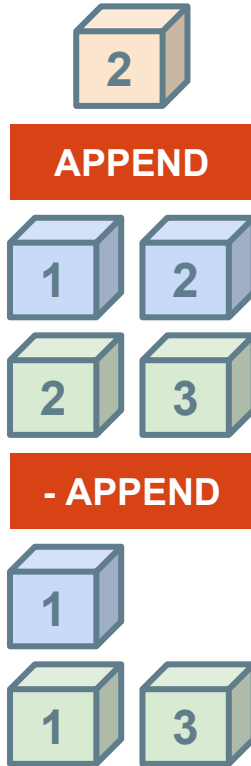
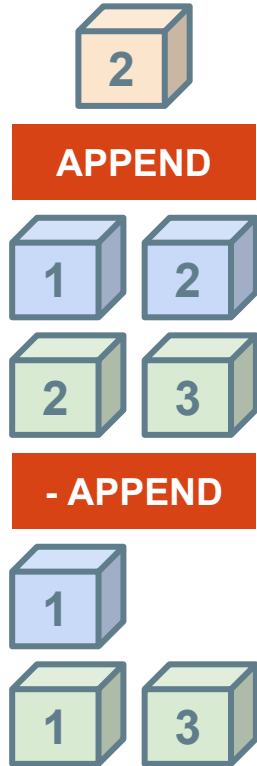
APPEND



APPEND



2-Phase Set



2-Phase Set

+

Timestamp



=

Last-Write-Wins-Element-Set

OR-Set

MC-Sets

U-Set

LWW-Register

MV-Register

Add-only monotonic DAG

Add-Remove Partial Order

...



**Compromis sur les fonctionnalités
(Ajout, Suppression, Modification...)**



**Compromis sur la performance
(bande passante, perte de paquet, mémoire...)**

Utilisé ?



Bases de données distribuées



Distributed Data



Chat (70M utilisateurs)



SOUNDCLOUD

News feed



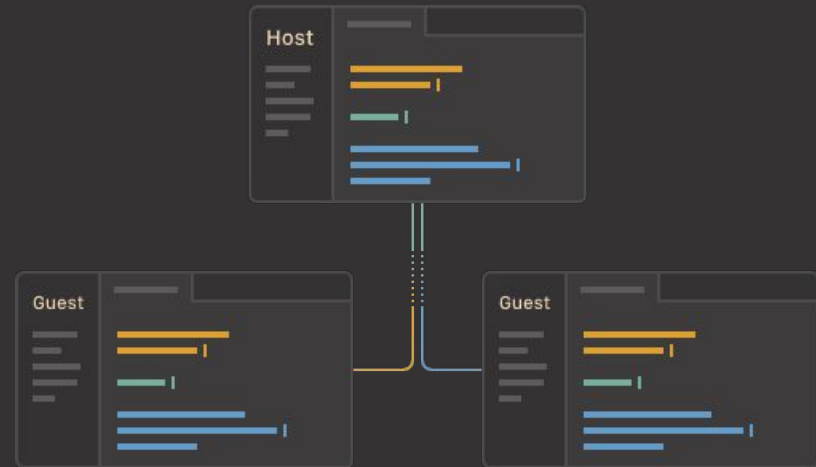
Sync. des localisations favorites

Mais aussi...



Collaborate in real time in Atom

Teletype^(beta) for Atom lets developers share their workspace with team members and collaborate on code in real time.



Mais aussi...

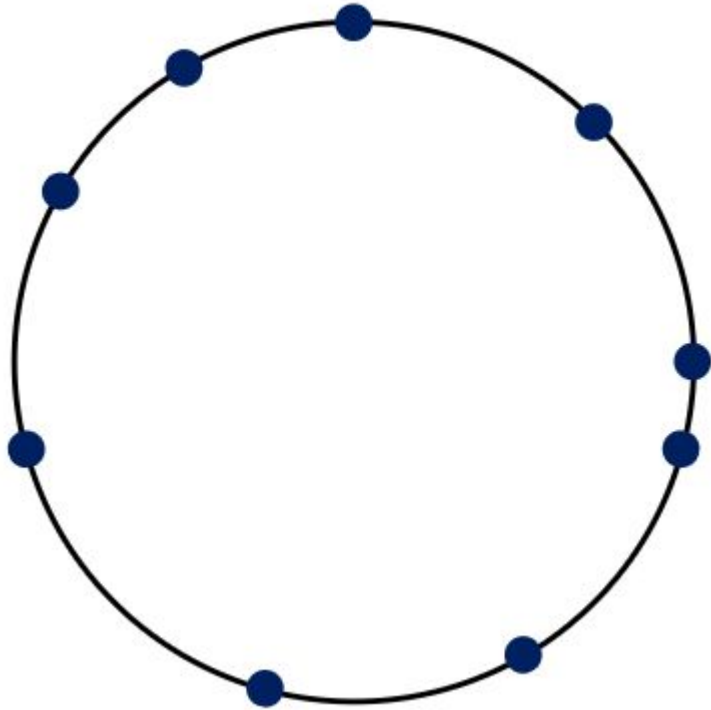
Démo

à la fin...

<https://acailly.github.io/roti/>

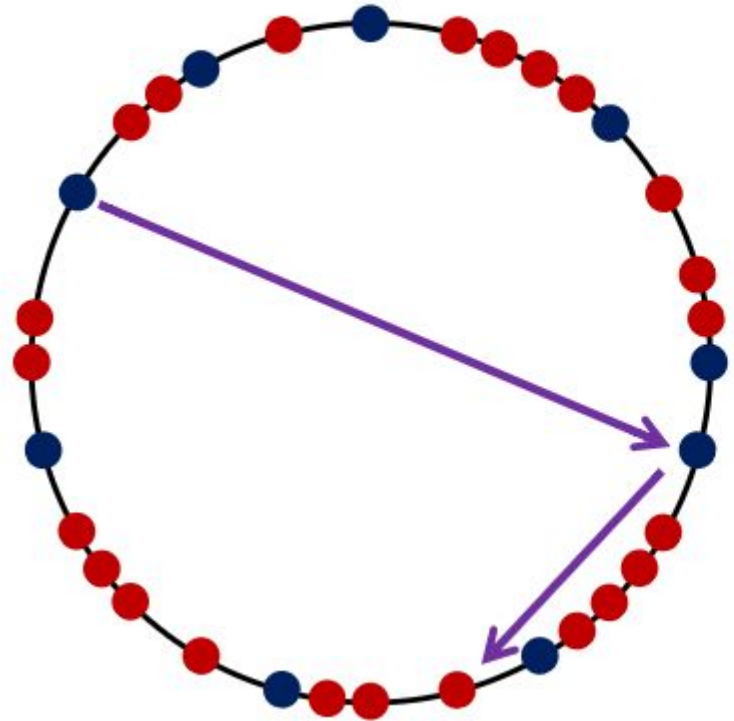


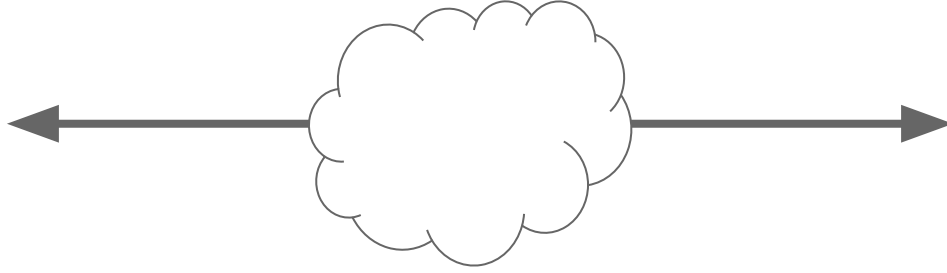
Et si on quittait le monde des bisounours ?



Sybil attack

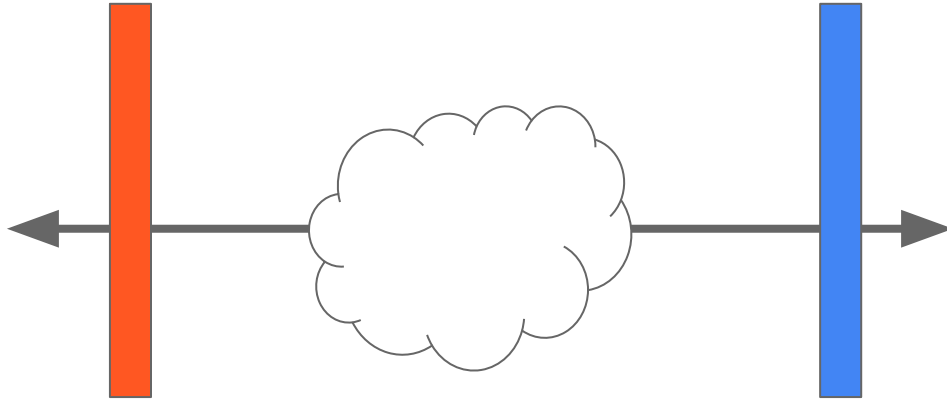
Brute-force attack







Réseau privé



Réseau public



Réseau privé

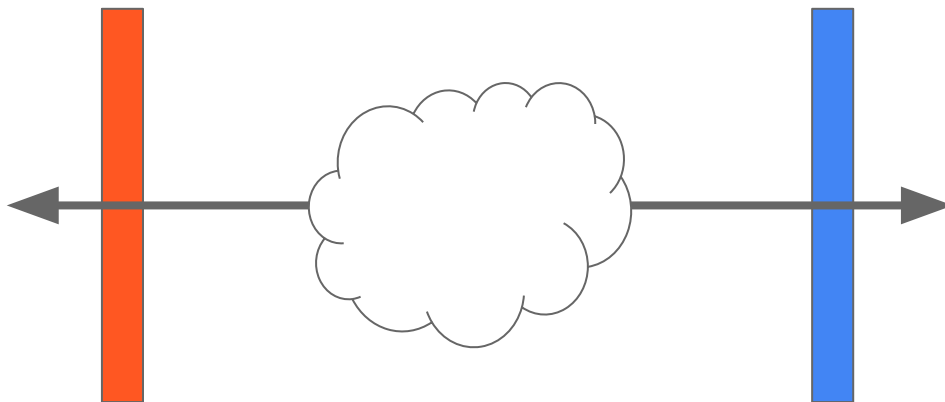


NAT Traversal

Session Traversal Utilities for NAT (STUN)

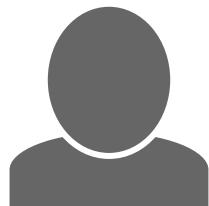


Adresse IP
privée



Adresse IP
privée

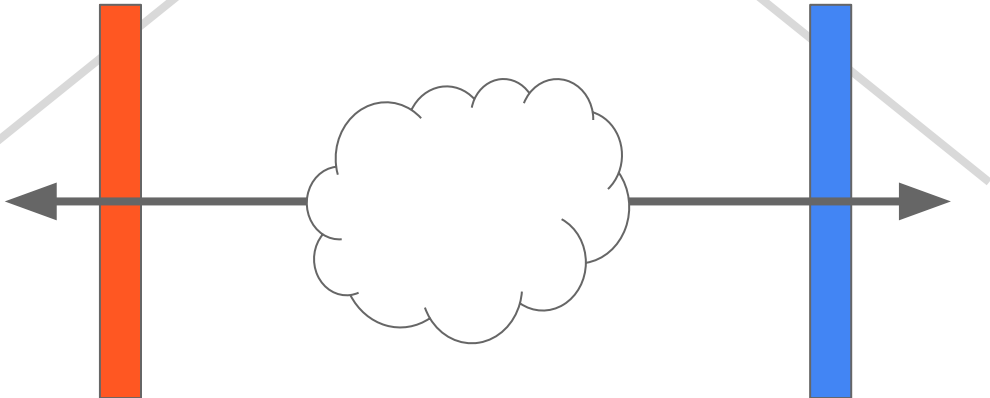
Quelle est mon adresse IP publique ?
Suis-je accessible de l'extérieur ?



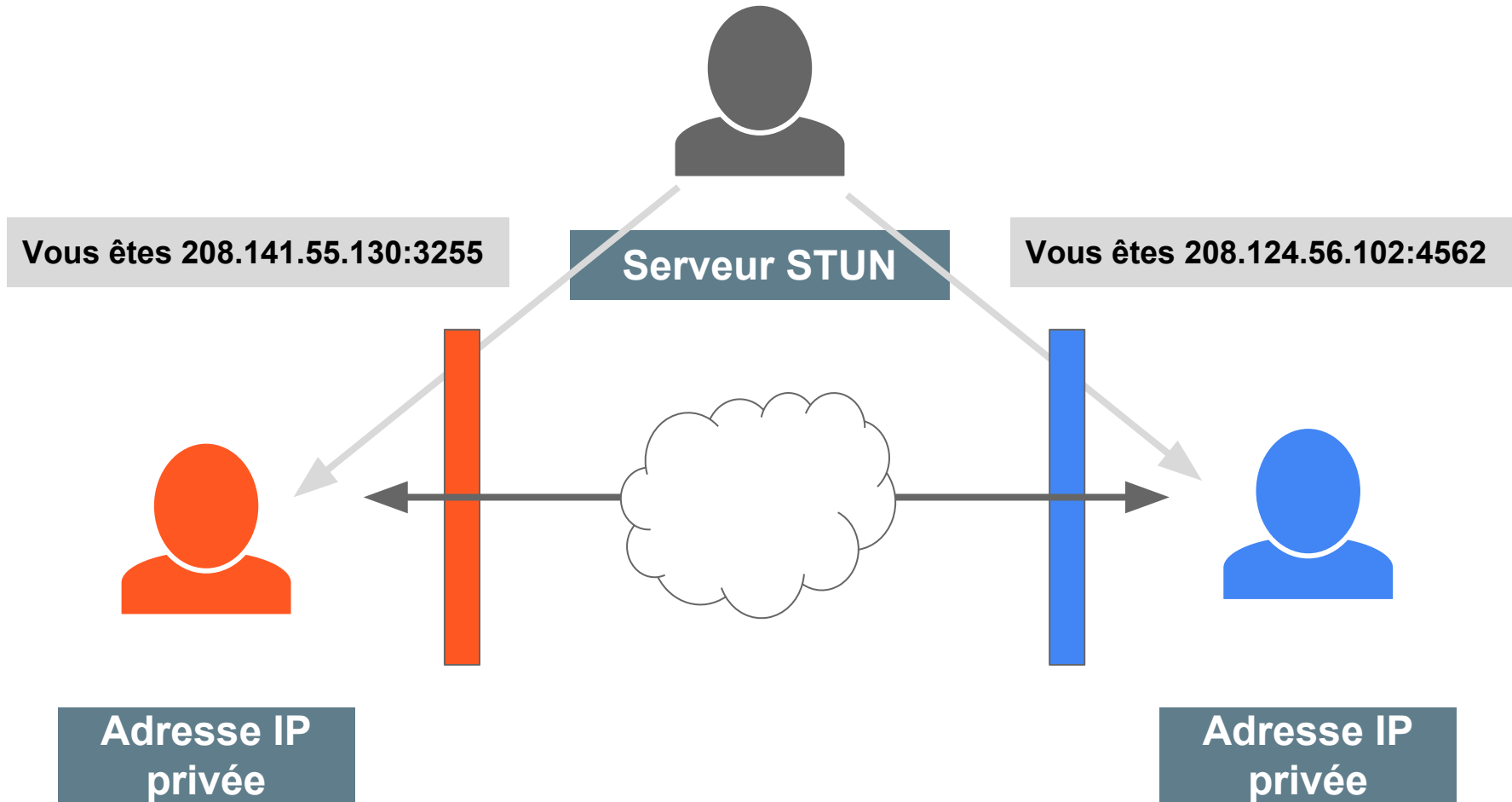
Serveur STUN



Adresse IP
privée



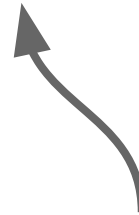
Adresse IP
privée



Adresse publique du routeur



208.141.55.130:3255



Port unique pour chaque device
derrière le routeur

Qui n'accepte que les connexions entrante s'il y a une connexion sortante sur ce pair

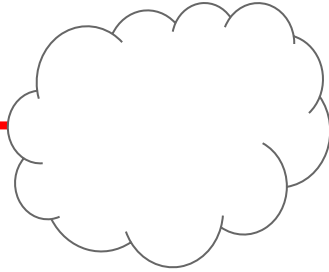
Vous êtes 208.141.55.130:3255
Derrière un NAT symétrique

Serveur STUN

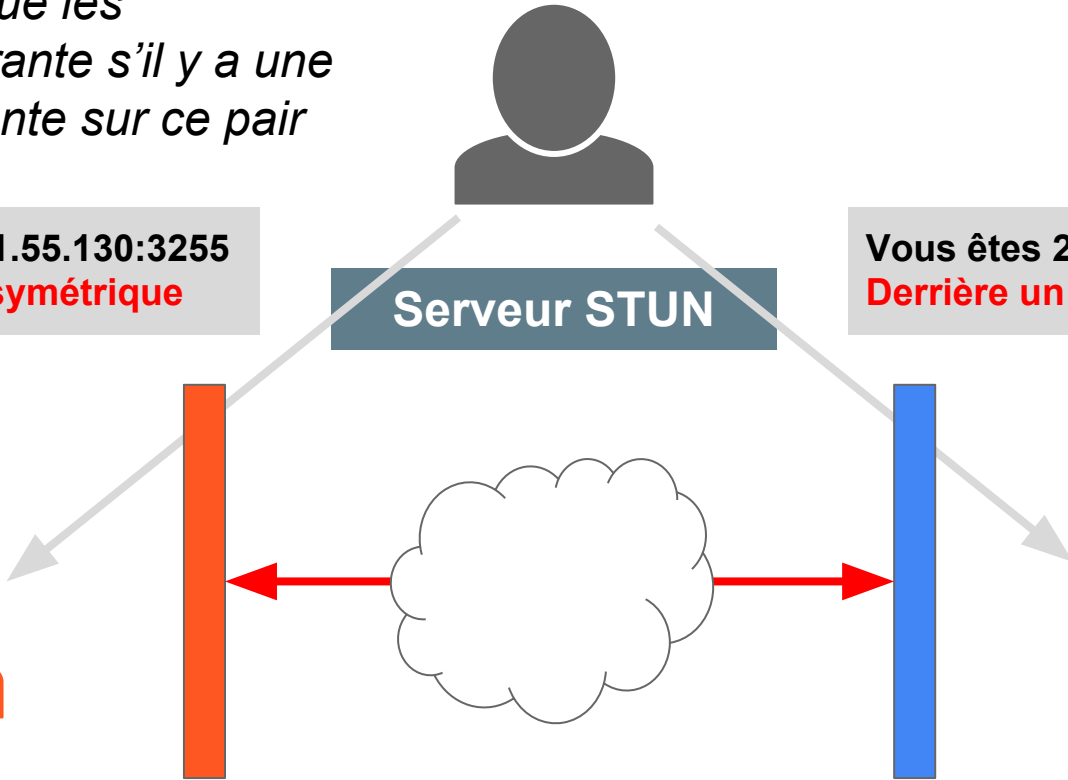
Vous êtes 208.124.56.102:4562
Derrière un NAT symétrique



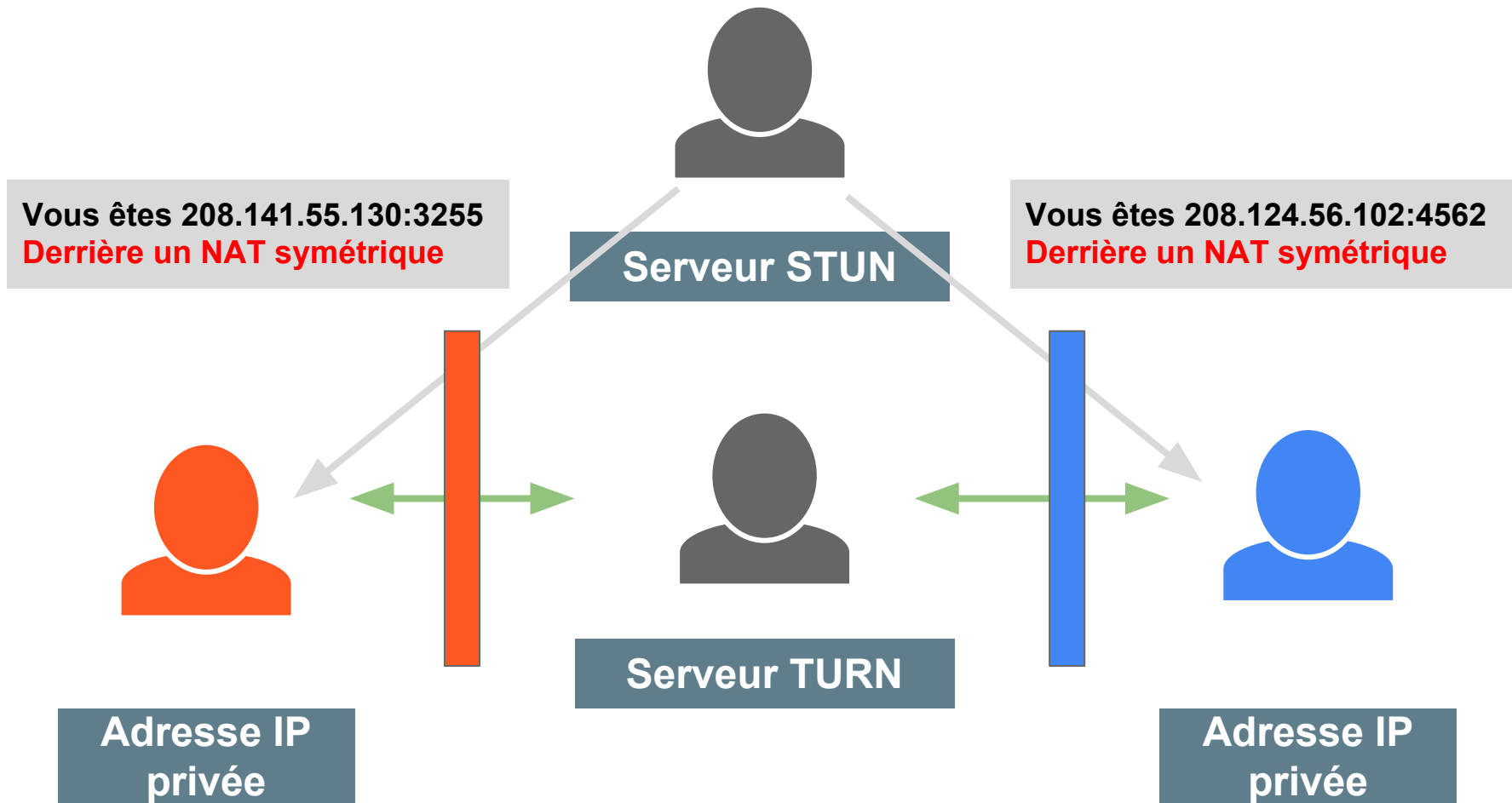
**Adresse IP
privée**



**Adresse IP
privée**



Traversal Using Relays around NAT (TURN)



**Que nous
réserve le futur ?**





A close-up photograph of a gold Bitcoin coin, showing its intricate circuit-like patterns and the word 'BITCOIN' around the edge. The coin is the central focus, with other coins blurred in the background. Overlaid on the coin are four red rectangular boxes, each containing a white question in French.

Scalabilité ?

Impact écologique ?

Arnaques ?

Centralisation ?



True data ownership

Users should have the freedom to choose where their data resides and who is allowed to access it. By decoupling content from the application itself, users are now able to do so.



Modular design

Because applications are decoupled from the data they produce, users will be able to avoid vendor lock-in, seamlessly switching between apps and personal data storage servers, without losing any data or social connections.



Reusing existing data

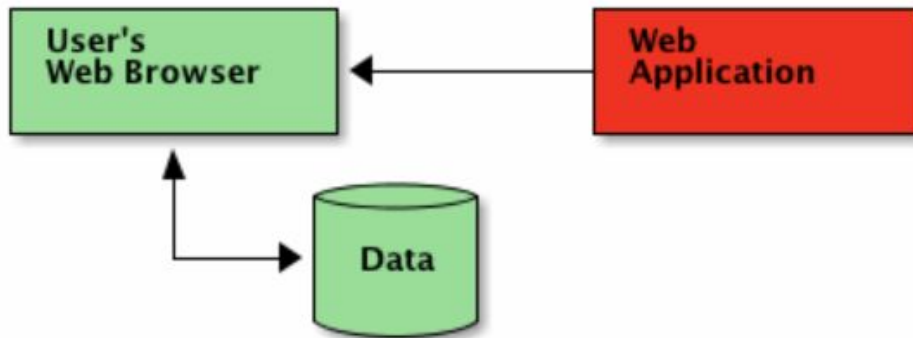
Developers will be able to easily innovate by creating new apps or improving current apps, all while reusing existing data that was created by other apps.



remoteStorage

An open protocol for per-user storage on the Web

<https://remotestorage.io/>



<https://unhosted.org/>

IPFS is the Distributed Web

A peer-to-peer hypermedia protocol
to make the web faster, safer, and more open.

Try it

Watch demo

<https://ipfs.io/>

<https://libp2p.io/>

The  IPFS Stack

Applications

Using the Data

IPNS



Naming

Merkledag

Defining the Data



Exchange

Routing

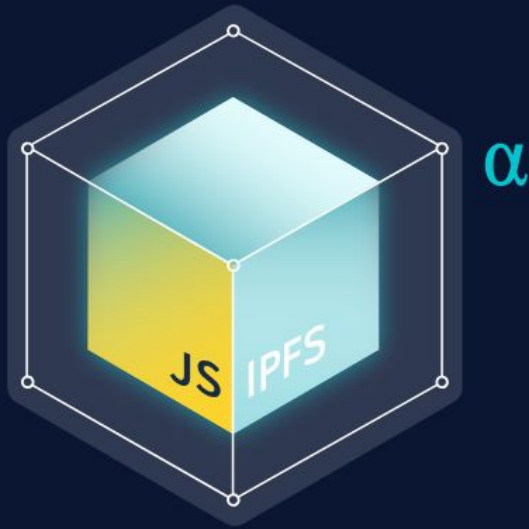
Network

Moving the Data

<https://ipfs.io/>

<https://libp2p.io/>

<https://js.ipfs.io/>



A full P2P protocol written entirely in JavaScript

js-ipfs paves the way for the Browser implementation of the IPFS protocol. Written entirely in JavaScript, it runs in a Browser, a Service Worker, a Web Extension and Node.js, opening the door to a world of possibilities.

<https://www.coindesk.com/257-million-filecoin-breaks-time-record-ico-funding/>

\$257 Million: Filecoin Breaks All-Time Record for ICO Funding

Sep 7, 2017 at 20:45 UTC by Stan Higgins



BLOG

WHAT WE DO

SUPPORT

COMMUNITY

Cloudflare goes InterPlanetary - Introducing Cloudflare's IPFS Gateway

17 Sep 2018 by [Andy Parker](#).

<https://blog.cloudflare.com/distributed-web-gateway/>

dat:// — a peer-to-peer protocol

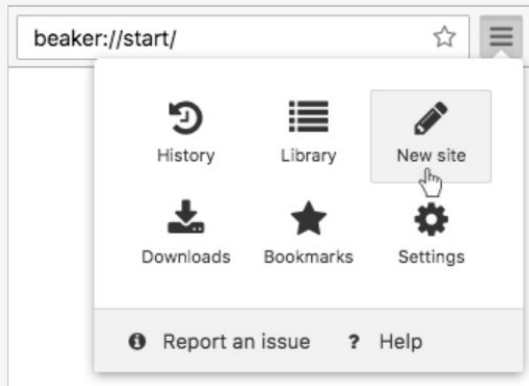
A community-driven project powering a next-generation Web



Rethink the Web browser

Beaker is a peer-to-peer browser with tools to create and host websites. Don't just browse the Web, build it.

<https://beakerbrowser.com/>



Can your browser do this?



None of us are as smart as all of us.

Fork



@leokewitz
December 13th, 2017
3 min read

New release 0.2.0

I'm really happy to announce that I finally learned how to version ^[1]! Also there are a lot of new features!

Footnotes

As you might noticed one of the new features is being able to add footnotes ^[2]. Footnotes can be inlined or manually referenced.

```
This is how you manually[^manual] reference something[^1].
```

```
This is how you add inline^[You don't need to specify inlined notes  
at the end of the file.] notes.
```

```
...
```

```
// In the end of the file...
```

```
[^1]: This is a footnote
```

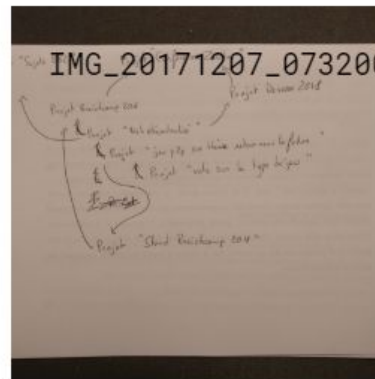
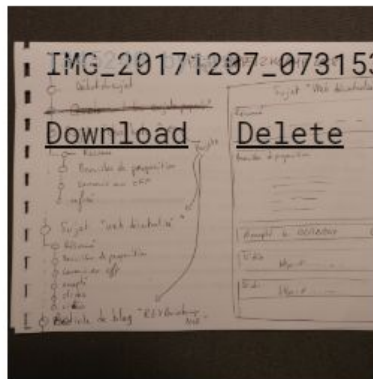
```
[^manual]: manually referenced
```

<https://github.com/kewitz/dat-medium>

carbon.png

```
require('lodash')
= require('bittorrent-dht')
ip = require('geopip-lite-co
```

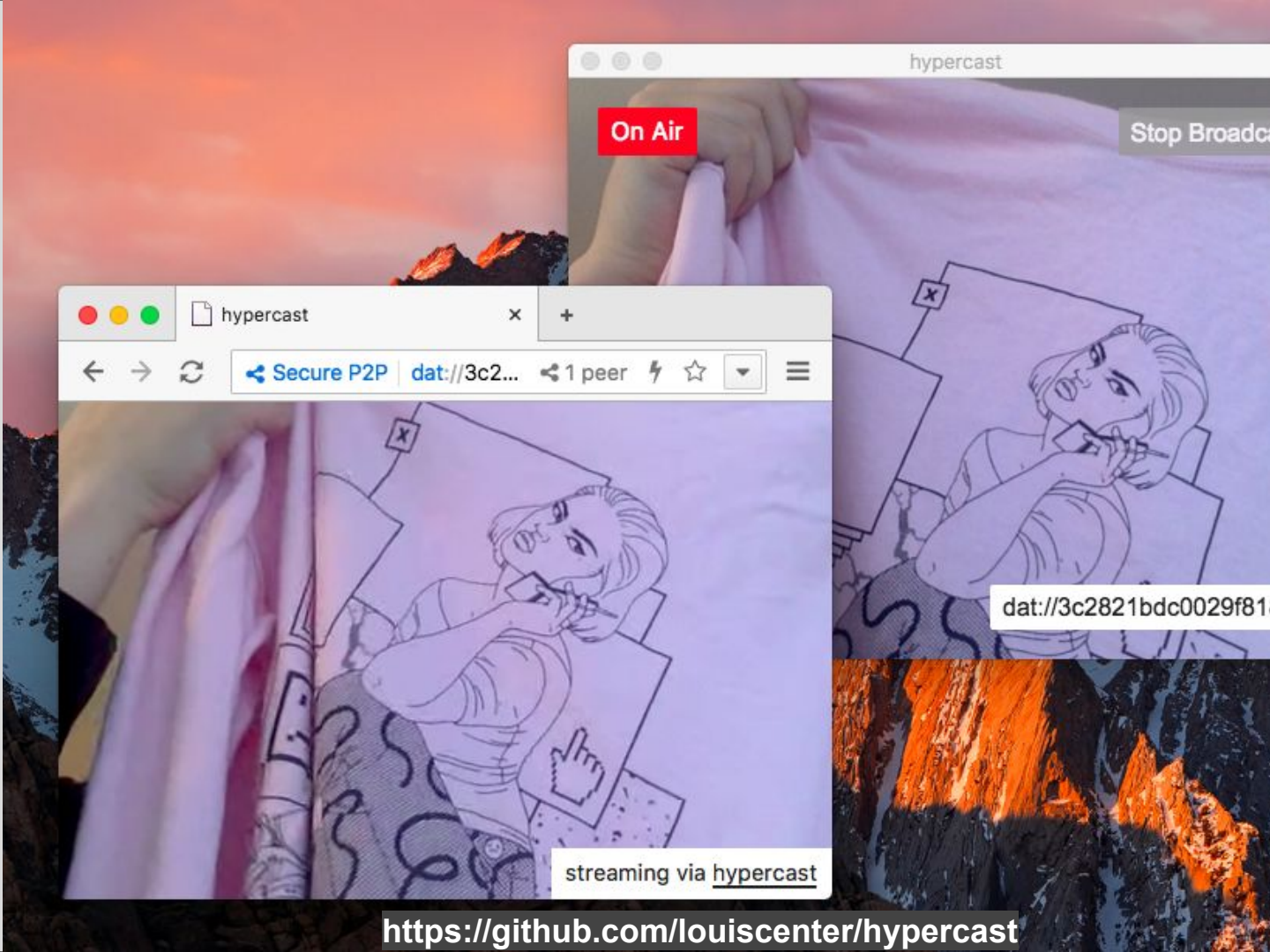
guide.txt



<http://hex22.org/projects/ntain/>



Dropbox



<https://github.com/louiscenter/hypercast>



Paul Frazee

Following

Web nerd re-decentralizing the Web. Unblockchain consultant. Founder of the Beaker browser and Hashbase. Previously Secure Scuttlebutt.

Make sure your profile stays online! Share your profile URL with a public peer like Hashbase.

Feeling ambitious? Deploy your own public peer.

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Who to follow



Tim Caswell

Follow



Ross Schulman

Follow



Sander Moolin

Follow



PsaeBrai

Follow

Posts
68

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39



Paul Frazee · 4d ago

No need to fret that you're missing frets. Fritter now tells you (once again) when there are new frets.



Paul Frazee · 4d ago

Fritter update was published. You shouldn't need to be afraid to click on links anymore.



Paul Frazee · 4d ago

Doing some work on Fritter today, fixing some of the annoying things like the issue clicking on links and the lack of "new posts" notification. Also going to look at Sander's mentions PR (finally!). Also using this to QA our 0.8 fork & edit flows... which needs a little work but it's working ok so far.



Paul Frazee · 4d ago

Replying to this post

Cool idea! I'm certain people will find that interesting and worth talking about.



Mozilla Add-ons Blog

<https://blog.mozilla.org/addons/2018/01/26/extensions-firefox-59/>



Extensions in Firefox 59

Support for Decentralization Protocols

Mozilla has always been a [proponent of decentralization](#), recognizing that it is a key ingredient of a healthy Internet. Starting with Firefox 59, several protocols that support decentralized architectures are approved for use by extensions. The newly approved protocols are:

- [Dat Project](#) (dat://)
- [IPFS](#) (dweb:// ipfs:// ipns://)
- [Secure Scuttlebutt](#) (ssb://)

Firefox itself does not implement these protocols, but having them on the approved list means the browser recognizes them as valid protocols and extensions are free to provide implementations.

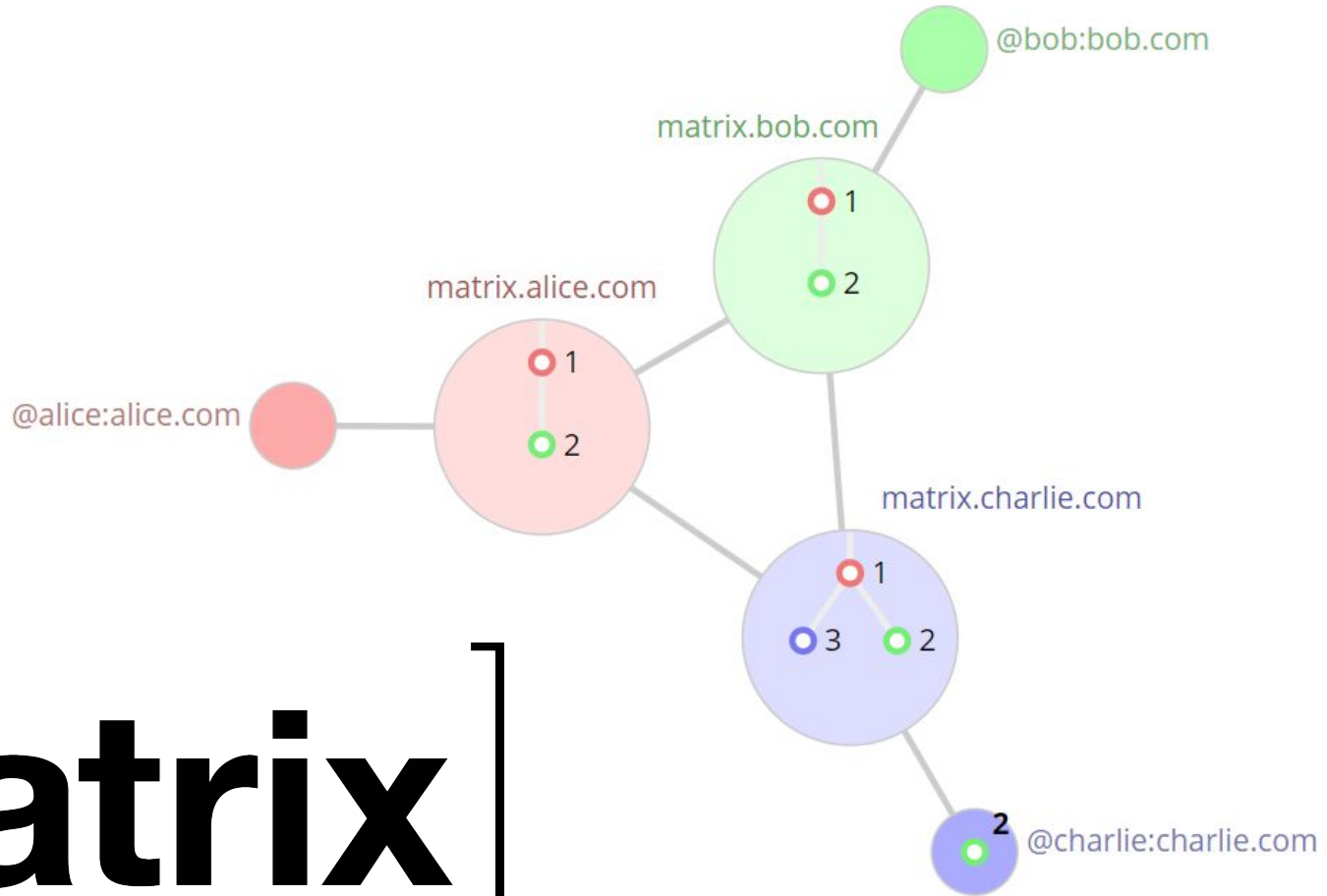


CETTE APRÈS MIDI

13H30

AMPHI C

<https://www.scuttlebutt.nz/>



matrix

<https://matrix.org>



Paris, le 20/04/2018

L'État adopte sa propre messagerie instantanée sécurisée

D'ici l'été 2018, l'État disposera de sa propre messagerie instantanée, alternative aux applications WhatsApp et Telegram.

Elle garantira des **échanges sécurisés**, chiffrés de bout en bout, sans dégradation de l'expérience utilisateur. Elle sera compatible avec n'importe quel terminal mobile ou poste de travail, d'État ou personnel. En effet jusqu'à maintenant l'installation des applications comme WhatsApp ou Telegram n'était pas possible sur les téléphones mobiles professionnels ce qui ne permettait pas une fluidité parfaite de l'information et des partages de documents.

Piloté par la **direction interministérielle du numérique et du système d'information et de communication de l'État (DINSIC)**, le projet reçoit les contributions de l'**Agence nationale de la sécurité des systèmes d'information (ANSSI)**, des DSI du **ministère des Armées** et du **ministère de l'Europe et des affaires étrangères**.

L'outil développé s'appuie sur un **logiciel open source** (Riot) qui implémente un **standard ouvert** (Matrix). Porté par une startup Franco-Britannique (New Vector), et bénéficiant de nombreuses contributions, ce standard d'échanges de messages instantanés a déjà retenu l'attention d'autres États tels que les **Pays-Bas** et le **Canada**, avec qui la DINSIC collabore étroitement.

Introducing the Dweb



By [Dietrich Ayala](#)

Posted on July 31, 2018, in [Dweb](#), [Featured Article](#), [Mission:Mozilla](#), and [P2P Web](#)

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Introducing the Dweb

The web is the most successful programming platform in history, resulting in the largest open and accessible collection of human knowledge ever created. So yeah, it's pretty great. But there are a set of common problems that the web is *not* able to address.

<https://hacks.mozilla.org/2018/07/introducing-the-d-web/>

Démo

Beaker Browser,
un navigateur P2P

<https://explore.beakerbrowser.com/>

Démo

ROTI en peer to peer

<https://acailly.github.io/roti/>

<https://acailly.github.io/roti/>

Merci